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Memorandum

M8141-SLF-05-148

To: S. J. Trent A0-21 Date: March 24, 2005

From: S. L. Fitzgerald, Manager *by [Signature]*
WSCF Analytical Chemistry

cc:	w/Attachments	w/o Attachments
	T. F. Dale S3-28	D. J. Hart S3-30
	H. K. Meznarich S3-30	M. A. Neely S3-30
	P. D. Mix S3-30	L. C. Swanson E6-35
	J. E. Trechter S3-30	File/LB

Subject: REVISED FINAL RESULTS FOR 200-MW-1 CHARACTERIZATION SAMPLING AND ANALYSIS - SOIL - SAMPLE DELIVERY GROUP WSCF20050300 - SAF NUMBER F04-015

Reference: (1) Memo, SL Fitzgerald to SJ Trent, same subject (M8141-SLF-05-117) dated March 9, 2005
(2) Groundwater Protection Program-Letter of Instruction, FH-EIS-2003-MEM-001, October 31, 2002
(3) HNF-SD-CD-QAPP-017, Rev. 6, Waste Sampling & Characterization Facility Quality Assurance Plan

This letter contains a revised analytical result (Reference 1, Attachment 2, Page 24 of 53) for sample delivery group WSCF20050300. The blank QC result for Aroclor-1268 was corrected to read <50 µg/Kg. Please replace the original Page 24 with the attachment.

SLF/grf

Attachment 1

RECEIVED
SEP 21 2005
EDMC



REVISED
[Redacted]
3/30/05

M8141-SLF-05-117

ATTACHMENT 1

NARRATIVE

Consisting of 7 pages
Including cover page

Sample Delivery Group	WSCF20050300
Sample Matrix	Soil
Sample Visual	N/A
SAF Number	F04-015
Data Deliverable	Summary Report

Introduction

Two (2) 200-MW-1 Characterization Sampling and Analysis – Soil/216-T-33, 110.5' – 133', samples (B19PN1 and B19PN2) were received at the WSCF Laboratory on February 7, 2005. The samples were analyzed for the analytes indicated on the attached copy of the chain of custody (COC) form in accordance with the *Groundwater Remediation Program – Letter of Instruction*, referenced in the cover letter.

The narrative (Attachment 1) will address sample characteristics, analyses requested and general information in performance of the analytical methods. A Data Summary Report (Attachment 2) includes analytical results, a comment report detailing method abnormalities, tentatively identified peaks if applicable, method references, and Laboratory QC information. Copies of the Chain of Custody and sample receipt forms are included as Attachment 3.

Analytical Methodology for Requested Analyses

Inorganic

- Anions by EPA Method 300. Analytical work was performed with no deviations to the approved method.
- Cyanide by EPA Method 335.2. Analytical work was performed with no deviations to the approved method.
- ICP-MS Metals by EPA Method 200.8. Analytical work was performed with no deviations to the approved method.
- Percent Solids by EPA Method 160.3. Analytical work was performed with no deviations to the approved method.
- pH by EPA Method 9045C. Analytical work was performed with no deviations to the approved method.

Organic

- PCB by EPA Method 8082. Analytical work was performed with no deviations to the approved method.

- Semi-VOA by EPA Method 8270C. Analytical work was performed with no deviations to the approved method.
- TPH Diesel/Gas Range by WDOE Method NWTPH-Dx/Gx. Analytical work was performed with no deviations to the approved method.
- VOA by EPA Method 8260B. Analytical work was performed with no deviations to the approved method.

Radiochemistry

- All RadChem analyses (AEA (Plutonium, Americium and Uranium), GEA, Sr-89/90) were run by internal WDOE accredited WSCF procedures. Analytical work was performed with no deviations to the approved method.

Inorganic Comments

Anions - The hold times for Nitrite and Nitrate analyses were not met. A Blank, Laboratory Control Sample, Duplicate, Matrix Spike and Matrix Spiked Duplicate were analyzed with each delivery group per GPP Letter of Instruction. See pages 13 through 14 for QC details.

Analytical Note:

- Preparation Date: 17-feb-2005.

All QC controls are within the established limits.

Cyanide- The hold time for this analysis was met. A Blank, Preparation Blank, Laboratory Control Sample, Matrix Spike and Matrix Spiked Duplicate were analyzed with each delivery group per GPP Letter of Instruction. See page 15 for QC details. Analytical Notes:

- Matrix Spike and Matrix Spike Duplicate QC samples were analyzed on sample# B19PM5 (SDG# 20050265, SAF# F04-015).
- The Matrix and Matrix Spike Duplicate recoveries were below established laboratory limits. The sample results were below the detection limit and U-flagged.

All other QC controls are within the established limits.

ICP-MS Metals – The hold time for this analysis was met. A Laboratory Control Sample, Matrix Spike and Matrix Spiked Duplicate were analyzed with each delivery group per the GPP Letter of Instruction. See pages 16 through 17 for QC details. Analytical Notes:

- Preparation Date: 14-feb-2005.
- Matrix Spike and Matrix Spike Duplicate QC samples were analyzed on sample# B19PN0 (SDG# 20050278, SAF# F04-015).

All QC controls are within the established limits.

Percent Solids – Analyzed for organic results correction.

pH – The hold time for this analysis was met. All internal laboratory controls were within established limits.

Organic Comments

- Sample results were moisture corrected and reported on a dry-weight basis.

PCB – The hold time for this analysis was met. A Blank, Duplicate, Laboratory Control Sample, Matrix Spike and Matrix Spiked Duplicate were analyzed with each delivery group per the GPP Letter of Instruction. See pages 23 through 24 for QC details. Analytical Notes:

- Preparation Date: 17-feb-2005.
- Matrix Spike and Matrix Spike Duplicate QC samples were analyzed on sample# B19407 (SDG# 20050388, SAF# F03-025).

All QC controls are within the established limits.

Semi-VOA – The hold time for this analysis was met. A Blank, Laboratory Control Sample, Matrix Spike and Matrix Spiked Duplicate were analyzed with each delivery group per the GPP Letter of Instruction. See pages 25 through 28 for QC details. Analytical Notes:

- Preparation Date: 17-feb-2005.
- Matrix Spike and Matrix Spike Duplicate QC samples were analyzed on sample# B19407 (SDG# 20050388, SAF# F03-025).

All QC controls are within the established limits.

TPHD-WA - The hold time for this analysis was met. A Blank, Laboratory Control Sample, Matrix Spike and Matrix Spike Duplicate were analyzed with each delivery group per GPP Letter of Instruction. See page 29 for QC details. Analytical Notes:

- Preparation Date: 17-feb-2005.
- Matrix Spike and Matrix Spike Duplicate QC samples were analyzed on sample# B19407 (SDG# 20050388, SAF# F03-025).

All QC controls are within the established limits.

TPHG-WA - The hold time for this analysis was met. A Blank, Duplicate, Laboratory Control Sample, Matrix Spike and Matrix Spike Duplicate were analyzed with each delivery group per GPP Letter of Instruction. See page 30 for QC details. Analytical Notes:

- Preparation Date: 17-feb-2005.

- Duplicate, Matrix Spike and Matrix Spike Duplicate QC samples were analyzed on sample# B19PN0 (SDG# 20050278, SAF# F04-015).

All QC controls are within the established limits.

VOA – The hold time for this analysis was met. A Blank, Laboratory Control Sample, Matrix Spike and Matrix Spiked Duplicate were analyzed with each delivery group per the GPP Letter of Instruction. See pages 31 through 34 for QC details. Analytical Notes:

- Preparation Date: 21-feb-2005.
- Matrix Spike and Matrix Spike Duplicate QC samples were analyzed on sample# B19PM7 (SDG# 20050265, SAF# F04-015).

All QC controls are within the established limits.

Radiochemistry Comments

RadChem – There are no hold times associated with these WDOE accredited methods. A Blank, Laboratory Control Sample and Duplicate were analyzed with each delivery group per the GPP Letter of Instruction. See pages 37 through 41 for QC details. Analytical Notes:

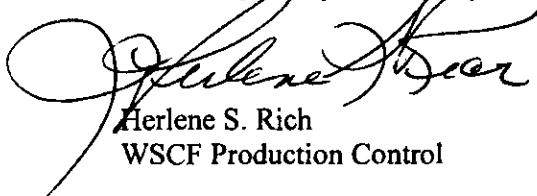
- Americium-241, Plutonium-239/240, Strontium/89/90 and Uranium-238 - Duplicate QC samples were analyzed on sample# B1B3R1 (SDG# 20050251, SAF# F04-019).
- GEA: Europium-155 – The Duplicate Relative Percent Difference exceeded established laboratory limits. The RPD criterion does not apply to low level samples.

All other QC controls are within the established limits.

Radiochemical Tracer Percent Recovery			
Sample Number	Lab Sample ID	Isotope	Tracer Recovery (Percent)
BLANK		Sr-85	95.3
LCS		Sr-85	97.7
B1B3R1	W050000288	Sr-85	90.5
DUPLICATE	W050000288	Sr-85	100.3
B19PN1	W050000409	Sr-85	99.2
B19PN2	W050000410	Sr-85	96.4
BLANK		Am-243	74.4

Radiochemical Tracer Percent Recovery			
Sample Number	Lab Sample ID	Isotope	Tracer Recovery (Percent)
LCS		Am-243	79.6
B1B3R1	W050000288	Am-243	82.8
DUPLICATE	W050000288	Am-243	85.5
B19PN1	W050000409	Am-243	95.9
B19PN2	W050000410	Am-243	100.2
BLANK		Pu-242	89.9
LCS		Pu-242	84.8
B1B3R1	W050000288	Pu-242	86.7
DUPLICATE	W050000288	Pu-242	83.6
B19PN1	W050000409	Pu-242	71.4
B19PN2	W050000410	Pu-242	93.4
BLANK		U-232	68.3
LCS		U-232	88.5
B1B3R1	W050000288	U-232	78.3
DUPLICATE	W050000288	U-232	77.5
B19PN1	W050000409	U-232	73.8
B19PN2	W050000410	U-232	81.5

This Summary Report is in compliance with the SOW, both technically and for completeness. Release of the data contained in this hard copy report has been authorized by the WSCF Laboratory Analytical Manager and Client Services, as verified by the following signature.



Herlene S. Rich
WSCF Production Control

Abbreviations

Hg – mercury
IC – ion chromatography
ICP – inductively coupled plasma
ICP/AES – ICP/atomic emission spectroscopy
ICP/MS – ICP/mass spectrometry
Total U – total uranium
AT/TB – total alpha/total beta
AEA – Alpha Energy Analysis
WTPH-G – Total Hydrocarbons-Gasoline

Am – americium
Cm - curium
Pu – plutonium
Np – neptunium
GEA – gamma energy analysis
H3 – Tritium
Sr – Strontium 89, 90
WTPH-D – Total Hydrocarbons-Diesel
TSS – Total Suspended Solids

M8141-SLF-05-117

ATTACHMENT 2

ANALYTICAL RESULTS

**Consisting of 41 pages
Including cover page**

WSCF
ANALYTICAL RESULTS REPORT

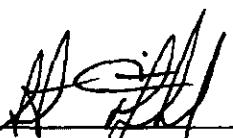
for

Groundwater Remediation Program

Richland, WA 99354

Attention: Steve Trent

Analytical:

 S. Fitzgerald

Client Services:

John T. Wright (John Trechter)

All results are reported on an "as received" basis unless otherwise noted in the comment section.

Confidentiality Notice: The information contained in this report is privileged and confidential information intended only for the use of the addressee. If the reader of this report is not the intended recipient, or the employee or agent responsible to deliver it to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone at (509) 373-7020.

Contract#: FH-EIS-2003-MEM-001

Report#: WSCF20050300

Report Date: 7-mar-2005

Report WGPP/ver. 1.1

Groundwater Remediation Program

Page 1

WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
Project: F04-015: F04-015

Group #: WSCF20050300

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
Inorganic													
W050000409	B19PN1	GRP	TRENT	57-12-5	Cyanide	SOIL	LA-695-402	U	< 0.200	mg/kg	1.00	0.20	02/22/05 02/07/05 02/07/05
W050000409	B19PN1	GRP	TRENT	TS	Total solids	SOIL	LA-519-412		93.9	%	1.00	0.0	02/10/05 02/07/05 02/07/05
W050000409	B19PN1	GRP	TRENT	PH	pH Measurement	SOIL	LA-212-411		8.66	pH	1.00	0.010	02/10/05 02/07/05 02/07/05
W050000409	B19PN1	GRP	TRENT	16984-48-8	Fluoride	SOIL	LA-533-410	U	< 1.15	mg/kg	50.00	1.2	02/17/05 02/07/05 02/07/05
W050000409	B19PN1	GRP	TRENT	N02-N	Nitrogen in Nitrite	SOIL	LA-533-410	U	< 0.950	mg/kg	50.00	0.95	02/17/05 02/07/05 02/07/05
W050000409	B19PN1	GRP	TRENT	N03-N	Nitrogen in Nitrate	SOIL	LA-533-410		5.80	mg/kg	50.00	0.65	02/17/05 02/07/05 02/07/05
W050000409	B19PN1	GRP	TRENT	P04-P	Phosphate (P) by IC	SOIL	LA-533-410	U	< 2.70	mg/kg	50.00	2.7	02/17/05 02/07/05 02/07/05
W050000409	B19PN1	GRP	TRENT	14808-79-8	Sulfate	SOIL	LA-533-410		56.7	mg/kg	50.00	5.0	02/17/05 02/07/05 02/07/05
W050000409	B19PN1	GRP	TRENT	7440-22-4	Silver	SOIL	LA-505-412	U	< 2.00	mg/kg	10.00	2.0	02/15/05 02/07/05 02/07/05
W050000409	B19PN1	GRP	TRENT	7440-43-9	Cadmium	SOIL	LA-505-412	U	< 1.00	mg/kg	10.00	1.0	02/15/05 02/07/05 02/07/05
W050000409	B19PN1	GRP	TRENT	7440-47-3	Chromium	SOIL	LA-505-412		8.25	mg/kg	10.00	3.0	02/15/05 02/07/05 02/07/05
W050000409	B19PN1	GRP	TRENT	7440-50-8	Copper	SOIL	LA-505-412		12.2	mg/kg	10.00	5.0	02/15/05 02/07/05 02/07/05
W050000409	B19PN1	GRP	TRENT	7439-92-1	Lead	SOIL	LA-505-412	U	< 12.0	mg/kg	10.00	12	02/15/05 02/07/05 02/07/05
W050000409	B19PN1	GRP	TRENT	7439-97-6	Mercury	SOIL	LA-505-412	U	< 1.00	mg/kg	10.00	1.0	02/15/05 02/07/05 02/07/05
W050000409	B19PN1	GRP	TRENT	7440-61-1	Uranium	SOIL	LA-505-412	U	< 1.00	mg/kg	10.00	1.0	02/15/05 02/07/05 02/07/05
W050000410	B19PN2	GRP	TRENT	57-12-5	Cyanide	SOIL	LA-695-402	U	< 0.200	mg/kg	1.00	0.20	02/22/05 02/07/05 02/07/05
W050000410	B19PN2	GRP	TRENT	TS	Total solids	SOIL	LA-519-412		96.2	%	1.00	0.0	02/10/05 02/07/05 02/07/05
W050000410	B19PN2	GRP	TRENT	PH	pH Measurement	SOIL	LA-212-411		8.96	pH	1.00	0.010	02/10/05 02/07/05 02/07/05
W050000410	B19PN2	GRP	TRENT	16984-48-8	Fluoride	SOIL	LA-533-410	U	< 1.15	mg/kg	50.00	1.2	02/17/05 02/07/05 02/07/05
W050000410	B19PN2	GRP	TRENT	N02-N	Nitrogen in Nitrite	SOIL	LA-533-410	U	< 0.950	mg/kg	50.00	0.95	02/17/05 02/07/05 02/07/05
W050000410	B19PN2	GRP	TRENT	N03-N	Nitrogen in Nitrate	SOIL	LA-533-410		10.6	mg/kg	50.00	0.65	02/17/05 02/07/05 02/07/05
W050000410	B19PN2	GRP	TRENT	P04-P	Phosphate (P) by IC	SOIL	LA-533-410	U	< 2.70	mg/kg	50.00	2.7	02/17/05 02/07/05 02/07/05
W050000410	B19PN2	GRP	TRENT	14808-79-8	Sulfate	SOIL	LA-533-410	U	< 5.00	mg/kg	50.00	5.0	02/17/05 02/07/05 02/07/05
W050000410	B19PN2	GRP	TRENT	7440-22-4	Silver	SOIL	LA-505-412	U	< 1.98	mg/kg	9.91	2.0	02/15/05 02/07/05 02/07/05
W050000410	B19PN2	GRP	TRENT	7440-43-9	Cadmium	SOIL	LA-505-412	U	< 0.991	mg/kg	9.91	0.99	02/15/05 02/07/05 02/07/05
W050000410	B19PN2	GRP	TRENT	7440-47-3	Chromium	SOIL	LA-505-412		9.24	mg/kg	9.91	3.0	02/15/05 02/07/05 02/07/05

MDL=Minimum Detection Limit U - Analyzed for but not detected above limiting criteria.

RQ=Result Qualifier

DF=Dilution Factor

* - Indicates results that have NOT been validated; + - Indicates more than six qualifier symbols

Report WGPP/ver. 1.1

Groundwater Remediation Program

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WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
Project: F04-015: F04-015

Group #: WSCF20050300

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF		Result	Unit	DF	MDL	Analyze Sample	Receive
					Method	RQ						
W050000410	B19PN2	GRP	TRENT	Copper	SOIL	LA-505-412	11.2	mg/kg	9.91	5.0	02/15/05	02/07/05
W050000410	B19PN2	GRP	TRENT	Lead	SOIL	LA-505-412 U	< 11.9	mg/kg	9.91	12	02/15/05	02/07/05
W050000410	B19PN2	GRP	TRENT	Mercury	SOIL	LA-505-412 U	< 0.991	mg/kg	9.91	0.99	02/15/05	02/07/05
W050000410	B19PN2	GRP	TRENT	Uranium	SOIL	LA-505-412 U	< 0.991	mg/kg	9.91	0.99	02/15/05	02/07/05

MDL=Minimum Detection Limit

U - Analyzed for but not detected above limiting criteria.

RQ=Result Qualifier

DF=Dilution Factor

* - Indicates results that have NOT been validated; + - Indicates more than six qualifier symbols

Report WGPP/ver. 1.1

Groundwater Remediation Program

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20050300

Matrix: SOLID

Test: Anions by Ion Chromatography

SAF Number: F04-015

Sample Date: 02/07/05

Receive Date: 02/07/05

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
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Lab ID: W050000410

BATCH QC ASSOCIATED WITH SAMPLE

DUP	Fluoride	16984-48-8	<1.15e0	n/a	RPD	02/17/05	0.000	20.000	U
DUP	Nitrogen in Nitrite	NO2-N	<9.50e-1	n/a	RPD	02/17/05	0.000	20.000	U
DUP	Nitrogen in Nitrate	NO3-N	1.01e+01	4.831	RPD	02/17/05	0.000	20.000	
DUP	Phosphate (P) by IC	PO4-P	<2.70e0	n/a	RPD	02/17/05	0.000	20.000	U
DUP	Sulfate	14808-79-8	<5.00e0	n/a	RPD	02/17/05	0.000	20.000	U
MS	Fluoride	16984-48-8	4.77e-01	96.559	% Recov	02/17/05	75.000	125.000	
MS	Nitrogen in Nitrite	NO2-N	5.24e-01	104.800	% Recov	02/17/05	75.000	125.000	
MS	Nitrogen in Nitrate	NO3-N	4.43e-01	98.226	% Recov	02/17/05	75.000	125.000	
MS	Phosphate (P) by IC	PO4-P	8.86e-01	91.434	% Recov	02/17/05	75.000	125.000	
MS	Sulfate	14808-79-8	2.00e+00	100.000	% Recov	02/17/05	75.000	125.000	
MSD	Fluoride	16984-48-8	4.83e-01	97.773	% Recov	02/17/05	75.000	125.000	
MSD	Nitrogen in Nitrite	NO2-N	5.26e-01	105.200	% Recov	02/17/05	75.000	125.000	
MSD	Nitrogen in Nitrate	NO3-N	4.55e-01	100.887	% Recov	02/17/05	75.000	125.000	
MSD	Phosphate (P) by IC	PO4-P	8.88e-01	91.641	% Recov	02/17/05	75.000	125.000	
MSD	Sulfate	14808-79-8	2.04e+00	102.000	% Recov	02/17/05	75.000	125.000	

BATCH QC

BLANK	Fluoride	16984-48-8	<2.30e-2	n/a	mg/L	02/17/05	0.000	300.000	U
BLANK	Fluoride	16984-48-8	<2.30e-2	n/a	mg/L	02/17/05	0.000	300.000	U
BLANK	Nitrogen in Nitrite	NO2-N	<1.90e-2	n/a	mg/L	02/17/05	0.000	300.000	U
BLANK	Nitrogen in Nitrite	NO2-N	<1.90e-2	n/a	mg/L	02/17/05	0.000	300.000	U
BLANK	Nitrogen in Nitrate	NO3-N	<1.30e-2	n/a	mg/L	02/17/05	0.000	300.000	U
BLANK	Nitrogen in Nitrate	NO3-N	<1.30e-2	n/a	mg/L	02/17/05	0.000	300.000	U
BLANK	Phosphate (P) by IC	PO4-P	<5.40e-2	n/a	mg/L	02/17/05	0.000	300.000	U
BLANK	Phosphate (P) by IC	PO4-P	<5.40e-2	n/a	mg/L	02/17/05	0.000	300.000	U
BLANK	Sulfate	14808-79-8	<1.00e-1	n/a	mg/L	02/17/05	0.000	300.000	U

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20050300

Matrix: SOLID

Test: Anions by Ion Chromatography

SAF Number: F04-015

Sample Date:

Receive Date:

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
BLANK	Sulfate	14808-79-8	<1.00e-1	n/a	mg/L	02/17/05	0.000	300.000	U
LCS	Fluoride	16984-48-8	1.04e+02	105.370	% Recov	02/17/05	80.000	120.000	
LCS	Nitrogen in Nitrite	NO2-N	1.01e+02	101.000	% Recov	02/17/05	80.000	120.000	
LCS	Nitrogen in Nitrate	NO3-N	9.27e+01	102.886	% Recov	02/17/05	80.000	120.000	
LCS	Phosphate (P) by IC	PO4-P	1.88e+02	97.007	% Recov	02/17/05	80.000	120.000	
LCS	Sulfate	14808-79-8	3.89e+02	97.494	% Recov	02/17/05	80.000	120.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20050300

Matrix: SOLID

Test: Cyanide by Midi/Spectrophotom

SAF Number: F04-015

Sample Date: 02/03/05

Receive Date: 02/03/05

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
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Lab ID: W050000296

BATCH QC ASSOCIATED WITH SAMPLE

MS	Cyanide by Midi/Spectrophotom	57-12-5	74.1	74.100	% Recov	02/22/05	75.000	125.000	*
MSD	Cyanide by Midi/Spectrophotom	57-12-5	72.1	72.100	% Recov	02/22/05	75.000	125.000	*
SPK-RPD	Cyanide by Midi/Spectrophotom	57-12-5	89.100	18.382	RPD	02/22/05	0.000	20.000	

BATCH QC

BLANK	Cyanide by Midi/Spectrophotom	57-12-5	<1	n/a	ug/L	02/22/05	-4.000	4.000	U
BLNK-PREP	Cyanide by Midi/Spectrophotom	57-12-5	<4	n/a	ug/L	02/22/05	-4.000	4.000	U
LCS	Cyanide by Midi/Spectrophotom	57-12-5	92.7	92.700	% Recov	02/22/05	85.000	115.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20050300

Matrix: SOLID

Test: ICP-2008 MS All possible metal

SAF Number: F04-015

Sample Date: 02/04/05

Receive Date: 02/04/05

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
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Lab ID: W050000340

BATCH QC ASSOCIATED WITH SAMPLE

MS	Silver	7440-22-4	410.2	102.550	% Recov	02/15/05	70.000	130.000	
MS	Cadmium	7440-43-9	441.1	110.275	% Recov	02/15/05	70.000	130.000	
MS	Chromium	7440-47-3	412.33	103.082	% Recov	02/15/05	70.000	130.000	
MS	Copper	7440-50-8	427.82	106.955	% Recov	02/15/05	70.000	130.000	
MS	Mercury	7439-97-6	22.38	111.800	% Recov	02/15/05	70.000	130.000	
MS	Lead	7439-92-1	429.1	107.275	% Recov	02/15/05	70.000	130.000	
MS	Uranium	7440-61-1	436.1	109.025	% Recov	02/15/05	70.000	130.000	
MSD	Silver	7440-22-4	410.7	102.675	% Recov	02/15/05	70.000	130.000	
MSD	Cadmium	7440-43-9	440.3	110.075	% Recov	02/15/05	70.000	130.000	
MSD	Chromium	7440-47-3	403.03	100.757	% Recov	02/15/05	70.000	130.000	
MSD	Copper	7440-50-8	413.82	103.455	% Recov	02/15/05	70.000	130.000	
MSD	Mercury	7439-97-6	22.41	112.050	% Recov	02/15/05	70.000	130.000	
MSD	Lead	7439-92-1	424	106.000	% Recov	02/15/05	70.000	130.000	
MSD	Uranium	7440-61-1	432.8	108.200	% Recov	02/15/05	70.000	130.000	
SPK-RPD	Silver	7440-22-4	102.675	0.122	RPD	02/15/05	0.000	20.000	
SPK-RPD	Cadmium	7440-43-9	110.075	0.182	RPD	02/15/05	0.000	20.000	
SPK-RPD	Chromium	7440-47-3	100.757	2.281	RPD	02/15/05	0.000	20.000	
SPK-RPD	Copper	7440-50-8	103.455	3.327	RPD	02/15/05	0.000	20.000	
SPK-RPD	Mercury	7439-97-6	112.050	0.223	RPD	02/15/05	0.000	20.000	
SPK-RPD	Lead	7439-92-1	106.000	1.196	RPD	02/15/05	0.000	20.000	
SPK-RPD	Uranium	7440-61-1	108.200	0.760	RPD	02/15/05	0.000	20.000	

BATCH QC

BLANK	Silver	7440-22-4	<0.2	n/a	ug/L	02/15/05		U
BLANK	Cadmium	7440-43-9	<0.1	n/a	ug/L	02/15/05		U
BLANK	Chromium	7440-47-3	<0.3	n/a	ug/L	02/15/05		U

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20050300

Matrix: SOLID

Test: ICP-2008 MS All possible metal

SAF Number: F04-015

Sample Date:

Receive Date:

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
BLANK	Copper	7440-50-8	<0.5	n/a	ug/L	02/15/05			U
BLANK	Mercury	7439-97-6	<0.1	n/a	ug/L	02/15/05			U
BLANK	Lead	7439-92-1	<1.2	n/a	ug/L	02/15/05			U
BLANK	Uranium	7440-61-1	<0.1	n/a	ug/L	02/15/05			U
LCS	Silver	7440-22-4	154.8	119.077	% Recov	02/15/05	110.000	170.000	
LCS	Cadmium	7440-43-9	145.9	113.984	% Recov	02/15/05	88.000	127.000	
LCS	Chromium	7440-47-3	67.99	97.827	% Recov	02/15/05	50.000	126.000	
LCS	Copper	7440-50-8	155.4	105.000	% Recov	02/15/05	61.000	134.000	
LCS	Mercury	7439-97-6	15.98	94.556	% Recov	02/15/05	75.000	114.000	
LCS	Lead	7439-92-1	157.6	110.986	% Recov	02/15/05	87.000	120.000	
LCS	Uranium	7440-61-1	424.9	106.225	% Recov	02/15/05	89.000	107.000	

WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
Project: F04-015: F04-015

Group #: WSCF20050300

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze Sample Receive
Organic											
W050000409	B19PN1	GRP	TRENT	TPH/GASOLINE	Total Pet. Hydrocarbons Gas	SOIL	LA-523-443	U	< 250	ug/kg	1.00
W050000409	B19PN1	GRP	TRENT	12674-11-2	Aroclor-1016	SOIL	LA-523-427	U	< 53.0	ug/kg	1.00
W050000409	B19PN1	GRP	TRENT	11104-28-2	Aroclor-1221	SOIL	LA-523-427	U	< 110	ug/kg	1.00
W050000409	B19PN1	GRP	TRENT	11141-18-5	Aroclor-1232	SOIL	LA-523-427	U	< 53.0	ug/kg	1.00
W050000409	B19PN1	GRP	TRENT	53489-21-9	Aroclor-1242	SOIL	LA-523-427	U	< 53.0	ug/kg	1.00
W050000409	B19PN1	GRP	TRENT	12872-29-6	Aroclor-1248	SOIL	LA-523-427	U	< 53.0	ug/kg	1.00
W050000409	B19PN1	GRP	TRENT	11097-69-1	Aroclor-1254	SOIL	LA-523-427	U	< 53.0	ug/kg	1.00
W050000409	B19PN1	GRP	TRENT	11096-82-5	Aroclor-1260	SOIL	LA-523-427	U	< 53.0	ug/kg	1.00
W050000409	B19PN1	GRP	TRENT	37324-23-5	Aroclor-1262	SOIL	LA-523-427	U	< 53.0	ug/kg	1.00
W050000409	B19PN1	GRP	TRENT	11100-14-4	Aroclor-1268	SOIL	LA-523-427	U	< 53.0	ug/kg	1.00
W050000409	B19PN1	GRP	TRENT	100-02-7	4-Nitrophenol	SOIL	LA-523-456	U	< 180	ug/kg	2.00
W050000409	B19PN1	GRP	TRENT	108-46-7	1,4-Dichlorobenzene	SOIL	LA-523-456	U	< 280	ug/kg	2.00
W050000409	B19PN1	GRP	TRENT	108-95-2	Phenol	SOIL	LA-523-456	U	< 150	ug/kg	2.00
W050000409	B19PN1	GRP	TRENT	120-82-1	1,2,4-Trichlorobenzene	SOIL	LA-523-456	U	< 190	ug/kg	2.00
W050000409	B19PN1	GRP	TRENT	121-14-2	2,4-Dinitrotoluene	SOIL	LA-523-456	U	< 110	ug/kg	2.00
W050000409	B19PN1	GRP	TRENT	129-00-0	Pyrene	SOIL	LA-523-456	U	< 170	ug/kg	2.00
W050000409	B19PN1	GRP	TRENT	59-50-7	4-Chloro-3-methylphenol	SOIL	LA-523-456	U	< 99.0	ug/kg	2.00
W050000409	B19PN1	GRP	TRENT	621-64-7	N-Nitrosodi-n-dipropylamine	SOIL	LA-523-456	U	< 160	ug/kg	2.00
W050000409	B19PN1	GRP	TRENT	83-32-9	Acenaphthene	SOIL	LA-523-456	U	< 150	ug/kg	2.00
W050000409	B19PN1	GRP	TRENT	87-86-5	Pentachlorophenol	SOIL	LA-523-456	U	< 150	ug/kg	2.00
W050000409	B19PN1	GRP	TRENT	95-57-8	2-Chlorophenol	SOIL	LA-523-456	U	< 160	ug/kg	2.00
W050000409	B19PN1	GRP	TRENT	126-73-8	Tributyl phosphate	SOIL	LA-523-456	U	< 150	ug/kg	2.00
W050000409	B19PN1	GRP	TRENT	75-35-4	1,1-Dichloroethene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00
W050000409	B19PN1	GRP	TRENT	79-01-6	Trichloroethene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00
W050000409	B19PN1	GRP	TRENT	71-43-2	Benzene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00
W050000409	B19PN1	GRP	TRENT	108-88-3	Toluene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00

MDL=Minimum Detection Limit

U - Analyzed for but not detected above limiting criteria.

RQ=Result Qualifier

DF=Dilution Factor

* - Indicates results that have NOT been validated; + - Indicates more than six qualifier symbols

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Report WGPP/ver. 1.1

Groundwater Remediation Program

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WSCF

ANALYTICAL RESULTS REPORT

Attention:
Project:

Steve Trent
F04-015: F04-015

Group #: WSCF20050300

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF		Result	Unit	DF	MDL	Analyze Sample	Receive	
					Method	RQ							
W050000409	B19PN1	GRP	TRENT	108-80-7	Chlorobenzene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05 02/07/05 02/07/05
W050000409	B19PN1	GRP	TRENT	75-34-3	1,1-Dichloroethane	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05 02/07/05 02/07/05
W050000409	B19PN1	GRP	TRENT	100-41-4	Ethylbenzene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05 02/07/05 02/07/05
W050000409	B19PN1	GRP	TRENT	100-42-5	Styrene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05 02/07/05 02/07/05
W050000409	B19PN1	GRP	TRENT	10061-01-5	cis-1,3-Dichloropropene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05 02/07/05 02/07/05
W050000409	B19PN1	GRP	TRENT	10061-02-6	trans-1,3-Dichloropropene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05 02/07/05 02/07/05
W050000409	B19PN1	GRP	TRENT	107-08-2	1,2-Dichloroethane	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05 02/07/05 02/07/05
W050000409	B19PN1	GRP	TRENT	108-10-1	4-Methyl-2-Pentanone	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05 02/07/05 02/07/05
W050000409	B19PN1	GRP	TRENT	124-48-1	Dibromochloromethane	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05 02/07/05 02/07/05
W050000409	B19PN1	GRP	TRENT	127-18-4	Tetrachloroethene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05 02/07/05 02/07/05
W050000409	B19PN1	GRP	TRENT	1330-20-7	Xylenes (total)	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05 02/07/05 02/07/05
W050000409	B19PN1	GRP	TRENT	540-59-0	1,2-Dichloroethene(Total)	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05 02/07/05 02/07/05
W050000409	B19PN1	GRP	TRENT	56-23-5	Carbon tetrachloride	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05 02/07/05 02/07/05
W050000409	B19PN1	GRP	TRENT	591-78-6	2-Hexanone	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05 02/07/05 02/07/05
W050000409	B19PN1	GRP	TRENT	67-64-1	Acetone	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05 02/07/05 02/07/05
W050000409	B19PN1	GRP	TRENT	67-66-3	Chloroform	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05 02/07/05 02/07/05
W050000409	B19PN1	GRP	TRENT	71-55-8	1,1,1-Trichloroethane	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05 02/07/05 02/07/05
W050000409	B19PN1	GRP	TRENT	74-83-9	Bromomethane	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05 02/07/05 02/07/05
W050000409	B19PN1	GRP	TRENT	74-87-3	Chloromethane	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05 02/07/05 02/07/05
W050000409	B19PN1	GRP	TRENT	75-00-3	Chloroethane	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05 02/07/05 02/07/05
W050000409	B19PN1	GRP	TRENT	75-01-4	Vinyl chloride	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05 02/07/05 02/07/05
W050000409	B19PN1	GRP	TRENT	75-09-2	Methylenechloride	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05 02/07/05 02/07/05
W050000409	B19PN1	GRP	TRENT	75-15-0	Carbon disulfide	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05 02/07/05 02/07/05
W050000409	B19PN1	GRP	TRENT	75-25-2	Bromoform	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05 02/07/05 02/07/05
W050000409	B19PN1	GRP	TRENT	75-27-4	Bromodichloromethane	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05 02/07/05 02/07/05
W050000409	B19PN1	GRP	TRENT	78-87-5	1,2-Dichloropropane	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05 02/07/05 02/07/05
W050000409	B19PN1	GRP	TRENT	78-93-3	2-Butanone	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05 02/07/05 02/07/05

MDL = Minimum Detection Limit

U - Analyzed for but not detected above limiting criteria.

RQ = Result Qualifier

DF = Dilution Factor

* - Indicates results that have NOT been validated; + - Indicates more than six qualifier symbols

Report WGPP/ver. 1.1

Groundwater Remediation Program

WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
Project: F04-015: F04-015

Group #: WSCF20050300

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze Sample	Receive
W050000409	B19PN1	GRP	TRENT	79-00-5	1,1,2-Trichloroethane	SOIL	LA-523-455 U	< 2.10	ug/kg	1.00	2.1	02/15/05 02/07/05 02/07/05
W050000409	B19PN1	GRP	TRENT	79-34-5	1,1,2,2-Tetrachloroethane	SOIL	LA-523-455 U	< 2.10	ug/kg	1.00	2.1	02/15/05 02/07/05 02/07/05
W050000409	B19PN1	GRP	TRENT	71-36-3	1-Butanol	SOIL	LA-523-455 U	< 43.0	ug/kg	1.00	43	02/15/05 02/07/05 02/07/05
W050000409	B19PN1	GRP	TRENT	104-51-8	n-Butylbenzene	SOIL	LA-523-455 U	< 2.10	ug/kg	1.00	2.1	02/15/05 02/07/05 02/07/05
W050000409	B19PN1	GRP	TRENT	156-60-5	trans-1,2-Dichloroethylene	SOIL	LA-523-455 U	< 2.10	ug/kg	1.00	2.1	02/15/05 02/07/05 02/07/05
W050000409	B19PN1	GRP	TRENT	156-59-2	cis-1,2-Dichloroethylene	SOIL	LA-523-455 U	< 2.10	ug/kg	1.00	2.1	02/15/05 02/07/05 02/07/05
W050000409	B19PN1	GRP	TRENT	TPHDIESEL	Total Pet. Hydrocarbons Diesel	SOIL	NWTOPH	< 4.00e+03	ug/kg	1.00	4.0e+03	03/03/05 02/07/05 02/07/05
W050000409	B19PN1	GRP	TRENT	TPHKEROSENE	Kerosene	SOIL	NWTOPH	< 4.00e+03	ug/kg	1.00	4.0e+03	03/03/05 02/07/05 02/07/05
W050000410	B19PN2	GRP	TRENT	TPHGANOLINE	Total Pet. Hydrocarbons Gas	SOIL	LA-523-443 U	< 260	ug/kg	1.00	2.5e+02	02/18/05 02/07/05 02/07/05
W050000410	B19PN2	GRP	TRENT	12874-11-2	Aroclor-1018	SOIL	LA-523-427 U	< 50.0	ug/kg	1.00	50	03/04/05 02/07/05 02/07/05
W050000410	B19PN2	GRP	TRENT	11104-28-2	Aroclor-1221	SOIL	LA-523-427 U	< 100	ug/kg	1.00	1.0e+02	03/04/05 02/07/05 02/07/05
W050000410	B19PN2	GRP	TRENT	11141-16-5	Aroclor-1232	SOIL	LA-523-427 U	< 50.0	ug/kg	1.00	50	03/04/05 02/07/05 02/07/05
W050000410	B19PN2	GRP	TRENT	53469-21-9	Aroclor-1242	SOIL	LA-523-427 U	< 50.0	ug/kg	1.00	50	03/04/05 02/07/05 02/07/05
W050000410	B19PN2	GRP	TRENT	12872-29-6	Aroclor-1248	SOIL	LA-523-427 U	< 50.0	ug/kg	1.00	50	03/04/05 02/07/05 02/07/05
W050000410	B19PN2	GRP	TRENT	11097-89-1	Aroclor-1254	SOIL	LA-523-427 U	< 50.0	ug/kg	1.00	50	03/04/05 02/07/05 02/07/05
W050000410	B19PN2	GRP	TRENT	11098-82-5	Aroclor-1260	SOIL	LA-523-427 U	< 50.0	ug/kg	1.00	50	03/04/05 02/07/05 02/07/05
W050000410	B19PN2	GRP	TRENT	37324-23-5	Aroclor-1262	SOIL	LA-523-427 U	< 50.0	ug/kg	1.00	50	03/04/05 02/07/05 02/07/05
W050000410	B19PN2	GRP	TRENT	11100-14-4	Aroclor-1268	SOIL	LA-523-427 U	< 50.0	ug/kg	1.00	50	03/04/05 02/07/05 02/07/05
W050000410	B19PN2	GRP	TRENT	100-02-7	4-Nitrophenol	SOIL	LA-523-456 U	< 180	ug/kg	2.00	1.8e+02	03/03/05 02/07/05 02/07/05
W050000410	B19PN2	GRP	TRENT	106-46-7	1,4-Dichlorobenzene	SOIL	LA-523-456 U	< 280	ug/kg	2.00	2.8e+02	03/03/05 02/07/05 02/07/05
W050000410	B19PN2	GRP	TRENT	108-95-2	Phenol	SOIL	LA-523-456 U	< 140	ug/kg	2.00	1.4e+02	03/03/05 02/07/05 02/07/05
W050000410	B19PN2	GRP	TRENT	120-82-1	1,2,4-Trichlorobenzene	SOIL	LA-523-456 U	< 190	ug/kg	2.00	1.9e+02	03/03/05 02/07/05 02/07/05
W050000410	B19PN2	GRP	TRENT	121-14-2	2,4-Dinitrotoluene	SOIL	LA-523-456 U	< 110	ug/kg	2.00	1.1e+02	03/03/05 02/07/05 02/07/05
W050000410	B19PN2	GRP	TRENT	129-00-0	Pyrene	SOIL	LA-523-456 U	< 160	ug/kg	2.00	1.6e+02	03/03/05 02/07/05 02/07/05
W050000410	B19PN2	GRP	TRENT	59-50-7	4-Chloro-3-methylphenol	SOIL	LA-523-456 U	< 97.0	ug/kg	2.00	97	03/03/05 02/07/05 02/07/05
W050000410	B19PN2	GRP	TRENT	621-64-7	N-Nitrosodi-n-propylamine	SOIL	LA-523-456 U	< 150	ug/kg	2.00	1.5e+02	03/03/05 02/07/05 02/07/05
W050000410	B19PN2	GRP	TRENT	83-32-9	Acenaphthene	SOIL	LA-523-456 U	< 140	ug/kg	2.00	1.4e+02	03/03/05 02/07/05 02/07/05

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RQ=Result Qualifier

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* - Indicates results that have NOT been validated; + - Indicates more than six qualifier symbols

Report WGPP/ver. 1.1

Groundwater Remediation Program

WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
Project: F04-015: F04-015

Group #: WSCF20050300

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF		Result	Unit	DF	MDL	Analyze	Sample	Receive		
					Method	RQ									
W050000410	B19PN2	GRP	TRENT	87-86-5	Pentachlorophenol	SOIL	LA-523-456	U	< 150	ug/kg	2.00	1.5e+02	03/03/05	02/07/05	02/07/05
W050000410	B19PN2	GRP	TRENT	95-57-8	2-Chlorophenol	SOIL	LA-523-456	U	< 160	ug/kg	2.00	1.6e+02	03/03/05	02/07/05	02/07/05
W050000410	B19PN2	GRP	TRENT	126-73-8	Tributyl phosphate	SOIL	LA-523-456	U	< 150	ug/kg	2.00	1.5e+02	03/03/05	02/07/05	02/07/05
W050000410	B19PN2	GRP	TRENT	75-35-4	1,1-Dichloroethene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05	02/07/05	02/07/05
W050000410	B19PN2	GRP	TRENT	79-01-6	Trichloroethene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05	02/07/05	02/07/05
W050000410	B19PN2	GRP	TRENT	71-43-2	Benzene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05	02/07/05	02/07/05
W050000410	B19PN2	GRP	TRENT	108-88-3	Toluene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05	02/07/05	02/07/05
W050000410	B19PN2	GRP	TRENT	108-90-7	Chlorobenzene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05	02/07/05	02/07/05
W050000410	B19PN2	GRP	TRENT	75-34-3	1,1-Dichloroethane	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05	02/07/05	02/07/05
W050000410	B19PN2	GRP	TRENT	100-41-4	Ethylbenzene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05	02/07/05	02/07/05
W050000410	B19PN2	GRP	TRENT	100-42-5	Styrene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05	02/07/05	02/07/05
W050000410	B19PN2	GRP	TRENT	10061-01-5	cis-1,3-Dichloropropene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05	02/07/05	02/07/05
W050000410	B19PN2	GRP	TRENT	10061-02-6	trans-1,3-Dichloropropene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05	02/07/05	02/07/05
W050000410	B19PN2	GRP	TRENT	107-06-2	1,2-Dichloroethane	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05	02/07/05	02/07/05
W050000410	B19PN2	GRP	TRENT	108-10-1	4-Methyl-2-Pentanone	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05	02/07/05	02/07/05
W050000410	B19PN2	GRP	TRENT	124-48-1	Dibromochloromethane	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05	02/07/05	02/07/05
W050000410	B19PN2	GRP	TRENT	127-18-4	Tetrachloroethene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05	02/07/05	02/07/05
W050000410	B19PN2	GRP	TRENT	1330-20-7	Xylenes (total)	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05	02/07/05	02/07/05
W050000410	B19PN2	GRP	TRENT	540-59-0	1,2-Dichloroethene(Total)	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05	02/07/05	02/07/05
W050000410	B19PN2	GRP	TRENT	56-23-5	Carbon tetrachloride	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05	02/07/05	02/07/05
W050000410	B19PN2	GRP	TRENT	591-78-6	2-Hexanone	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05	02/07/05	02/07/05
W050000410	B19PN2	GRP	TRENT	67-64-1	Acetone	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05	02/07/05	02/07/05
W050000410	B19PN2	GRP	TRENT	67-66-3	Chloroform	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05	02/07/05	02/07/05
W050000410	B19PN2	GRP	TRENT	71-55-6	1,1,1-Trichloroethane	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05	02/07/05	02/07/05
W050000410	B19PN2	GRP	TRENT	74-83-9	Bromomethane	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05	02/07/05	02/07/05
W050000410	B19PN2	GRP	TRENT	74-87-3	Chloromethane	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05	02/07/05	02/07/05
W050000410	B19PN2	GRP	TRENT	75-00-3	Chloroethane	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05	02/07/05	02/07/05

MDL=Minimum Detection Limit

U - Analyzed for but not detected above limiting criteria.

RQ=Result Qualifier

DF=Dilution Factor

* - Indicates results that have NOT been validated; + - Indicates more than six qualifier symbols

Report WGPP/ver. 1.1

Groundwater Remediation Program

WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
Project: F04-015: F04-015

Group #: WSCF20050300

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF		Unit	DF	MDL	Analyze	Sample	Receive	
					Method	RQ							
W050000410	B19PN2	GRP	TRENT	75-01-4	Vinyl chloride	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05 02/07/05 02/07/05
W050000410	B19PN2	GRP	TRENT	75-09-2	Methylenechloride	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05 02/07/05 02/07/05
W050000410	B19PN2	GRP	TRENT	75-15-0	Carbon disulfide	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05 02/07/05 02/07/05
W050000410	B19PN2	GRP	TRENT	75-25-2	Bromoform	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05 02/07/05 02/07/05
W050000410	B19PN2	GRP	TRENT	75-27-4	Bromodichloromethane	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05 02/07/05 02/07/05
W050000410	B19PN2	GRP	TRENT	78-87-5	1,2-Dichloropropene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05 02/07/05 02/07/05
W050000410	B19PN2	GRP	TRENT	78-93-3	2-Butanone	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05 02/07/05 02/07/05
W050000410	B19PN2	GRP	TRENT	79-00-5	1,1,2-Trichloroethane	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05 02/07/05 02/07/05
W050000410	B19PN2	GRP	TRENT	79-34-5	1,1,2,2-Tetrachloroethane	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05 02/07/05 02/07/05
W050000410	B19PN2	GRP	TRENT	71-38-3	1-Butanol	SOIL	LA-523-455	U	< 42.0	ug/kg	1.00	42	02/15/05 02/07/05 02/07/05
W050000410	B19PN2	GRP	TRENT	104-51-8	n-Butylbenzene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05 02/07/05 02/07/05
W050000410	B19PN2	GRP	TRENT	156-60-5	trans-1,2-Dichloroethylene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05 02/07/05 02/07/05
W050000410	B19PN2	GRP	TRENT	156-59-2	cis-1,2-Dichloroethylene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	02/15/05 02/07/05 02/07/05
W050000410	B19PN2	GRP	TRENT	TPHDIESEL	Total Pet. Hydrocarbons Diesel	SOIL	NWTPH	U	< 3.90e+03	ug/kg	1.00	3.9e+03	03/03/05 02/07/05 02/07/05
W050000410	B19PN2	GRP	TRENT	TPHKEROSENE	Kerosene	SOIL	NWTPH	U	< 3.90e+03	ug/kg	1.00	3.9e+03	03/03/05 02/07/05 02/07/05

MDL=Minimum Detection Limit

U - Analyzed for but not detected above limiting criteria.

RQ=Result Qualifier

DF=Dilution Factor

* - Indicates results that have NOT been validated; + - Indicates more than six qualifier symbols

Report WGPP/ver. 1.1

Groundwater Remediation Program

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20050300
 Matrix: SOLID
 Test: PCBs complete list

SAF Number: F04-015
 Sample Date: 02/07/05
 Receive Date: 02/07/05

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
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Lab ID: W050000409

BATCH QC ASSOCIATED WITH SAMPLE

SURR	Decachlorobiphenyl	2051-24-3	1095.8	103.000	% Recov	03/04/05	50.000	150.000	
SURR	Tetrachloro-m-xylene	877-09-8	1083.0	102.000	% Recov	03/04/05	50.000	150.000	

Lab ID: W050000410

BATCH QC ASSOCIATED WITH SAMPLE

SURR	Decachlorobiphenyl	2051-24-3	1068.6	107.000	% Recov	03/04/05	50.000	150.000	
SURR	Tetrachloro-m-xylene	877-09-8	1031.3	103.000	% Recov	03/04/05	50.000	150.000	

Lab ID: W050000556

BATCH QC ASSOCIATED WITH SAMPLE

MS	Aroclor-1260	11096-82-5	1035.7	100.000	% Recov	03/04/05	75.000	125.000	
MS	Decachlorobiphenyl	2051-24-3	1108.3	107.000	% Recov	03/04/05	50.000	150.000	
MS	Tetrachloro-m-xylene	877-09-8	1045.0	101.000	% Recov	03/04/05	50.000	150.000	
MSD	Aroclor-1260	11096-82-5	884.85	87.200	% Recov	03/04/05	75.000	125.000	
MSD	Decachlorobiphenyl	2051-24-3	980.20	96.600	% Recov	03/04/05	50.000	150.000	
MSD	Tetrachloro-m-xylene	877-09-8	1051.9	104.000	% Recov	03/04/05	50.000	150.000	
SPK-RPD	Aroclor-1260	11096-82-5	87.200	13.675	RPD	03/04/05	0.000	25.000	
SPK-RPD	Decachlorobiphenyl	2051-24-3	96.600	10.216	RPD	03/04/05	0.000	20.000	
SPK-RPD	Tetrachloro-m-xylene	877-09-8	104.000	2.927	RPD	03/04/05	0.000	20.000	

BATCH QC

BLANK	Aroclor-1016	12674-11-2	< 50	n/a	UGKG	03/04/05		U
BLANK	Aroclor-1221	11104-28-2	< 100	n/a	ug/Kg	03/04/05		U
BLANK	Aroclor-1232	11141-16-5	< 50	n/a	ug/Kg	03/04/05		U
BLANK	Aroclor-1242	53469-21-9	< 50	n/a	ug/Kg	03/04/05		U
BLANK	Aroclor-1248	12672-29-6	< 50	n/a	ug/Kg	03/04/05		U

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20050300
 Matrix: SOLID
 Test: PCBs complete list

SAF Number: F04-015
 Sample Date:
 Receive Date:

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
BLANK	Aroclor-1254	11097-69-1	< 50	n/a	ug/Kg	03/04/05			U
BLANK	Aroclor-1260	11098-82-5	< 50	n/a	ug/Kg	03/04/05			U
BLANK	Aroclor-1262	37324-23-5	< 50	n/a	ug/Kg	03/04/05			U
BLANK	Aroclor-1268	11100-14-4	< 50	n/a	ug/Kg	03/04/05			U
BLANK	Decachlorobiphenyl	2051-24-3	976.95	97.700	% Recov	03/04/05	50.000	150.000	
BLANK	Tetrachloro-m-xylene	877-09-8	986.73	98.700	% Recov	03/04/05	50.000	150.000	
LCS	Aroclor-1260	11098-82-5	975.87	97.800	% Recov	03/04/05	70.000	130.000	
LCS	Decachlorobiphenyl	2051-24-3	1022.9	102.000	% Recov	03/04/05	50.000	150.000	
LCS	Tetrachloro-m-xylene	877-09-8	1017.6	102.000	% Recov	03/04/05	50.000	150.000	

REVISED
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 3/30/05

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20050300
 Matrix: SOLID
 Test: SW-846 8270B Semi-Vols

SAF Number: F04-015
 Sample Date: 02/07/05
 Receive Date: 02/07/05

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
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Lab ID: W050000409

BATCH QC ASSOCIATED WITH SAMPLE

SURR	2-Fluorophenol	367-12-4	3177.2	89.900	% Recov	03/03/05	42.000	105.000
SURR	2-Fluorobiphenyl	321-60-8	3099.9	87.700	% Recov	03/03/05	56.000	122.000
SURR	Nitrobenzene-d5	4165-60-0	2996.3	84.800	% Recov	03/03/05	64.000	111.000
SURR	Phenol-d5	4165-62-2	3057.2	86.500	% Recov	03/03/05	54.000	120.000
SURR	2,4,6-Tribromophenol	118-79-6	2602.0	73.600	% Recov	03/03/05	24.000	122.000
SURR	Terphenyl-d14 (7Cl)	98904-43-9	3092.7	87.500	% Recov	03/03/05	35.000	150.000

Lab ID: W050000410

BATCH QC ASSOCIATED WITH SAMPLE

SURR	2-Fluorophenol	367-12-4	2921.3	84.500	% Recov	03/03/05	42.000	105.000
SURR	2-Fluorobiphenyl	321-60-8	2777.7	80.400	% Recov	03/03/05	56.000	122.000
SURR	Nitrobenzene-d5	4165-60-0	2702.7	78.200	% Recov	03/03/05	64.000	111.000
SURR	Phenol-d5	4165-62-2	2745.9	79.400	% Recov	03/03/05	54.000	120.000
SURR	2,4,6-Tribromophenol	118-79-6	2427.8	70.200	% Recov	03/03/05	24.000	122.000
SURR	Terphenyl-d14 (7Cl)	98904-43-9	2801.5	81.100	% Recov	03/03/05	35.000	150.000

Lab ID: W050000556

BATCH QC ASSOCIATED WITH SAMPLE

MS	1,2,4-Trichlorobenzene	120-82-1	3160.3	90.700	% Recov	03/03/05	46.000	107.000
MS	1,4-Dichlorobenzene	106-46-7	3039.8	87.300	% Recov	03/03/05	30.000	96.000
MS	2,4-Dinitrotoluene	121-14-2	2704.8	77.700	% Recov	03/03/05	59.000	106.000
MS	2-Fluorophenol	367-12-4	3365.0	96.600	% Recov	03/03/05	42.000	105.000
MS	Acenaphthene	83-32-9	3161.9	90.800	% Recov	03/03/05	61.000	116.000
MS	4-Chloro-3-methylphenol	59-50-7	4482.6	85.800	% Recov	03/03/05	61.000	106.000
MS	2-Chlorophenol	95-57-8	4872.2	93.300	% Recov	03/03/05	66.000	106.000
MS	N-Nitrosodi-n-dipropylamine	621-84-7	3077.8	88.400	% Recov	03/03/05	71.000	114.000

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20050300
 Matrix: SOLID
 Test: SW-846 8270B Semi-Vols

SAF Number: F04-015
 Sample Date: 02/16/05
 Receive Date: 02/16/05

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
MS	2-Fluorobiphenyl	321-60-8	3174.7	91.200	% Recov	03/03/05	56.000	122.000	
MS	Phenol	108-95-2	4675.9	89.500	% Recov	03/03/05	42.000	111.000	
MS	Nitrobenzene-d5	4165-60-0	3092.4	88.800	% Recov	03/03/05	64.000	111.000	
MS	4-Nitrophenol	100-02-7	3886.2	74.400	% Recov	03/03/05	32.000	118.000	
MS	Pentachlorophenol	87-86-5	4226.8	80.900	% Recov	03/03/05	62.000	114.000	
MS	Phenol-d5	4165-62-2	3134.3	90.000	% Recov	03/03/05	54.000	120.000	
MS	Pyrene	129-00-0	2927.1	84.000	% Recov	03/03/05	66.000	118.000	
MS	2,4,6-Tribromophenol	118-79-6	2964.3	85.100	% Recov	03/03/05	24.000	122.000	
MS	Terphenyl-d14 (7Cl)	98904-43-9	3108.2	89.200	% Recov	03/03/05	35.000	150.000	
MSD	1,2,4-Trichlorobenzene	120-82-1	3054.4	87.300	% Recov	03/03/05	46.000	107.000	
MSD	1,4-Dichlorobenzene	106-46-7	2877.8	82.200	% Recov	03/03/05	30.000	96.000	
MSD	2,4-Dinitrotoluene	121-14-2	2667.6	76.200	% Recov	03/03/05	59.000	106.000	
MSD	2-Fluorophenol	367-12-4	3237.9	92.500	% Recov	03/03/05	42.000	105.000	
MSD	Acenaphthene	83-32-9	2950.1	84.300	% Recov	03/03/05	61.000	116.000	
MSD	4-Chloro-3-methylphenol	59-50-7	4388.6	83.600	% Recov	03/03/05	61.000	106.000	
MSD	2-Chlorophenol	95-57-8	4609.9	87.800	% Recov	03/03/05	66.000	106.000	
MSD	N-Nitrosodi-n-propylamine	621-64-7	2891.4	82.600	% Recov	03/03/05	71.000	114.000	
MSD	2-Fluorobiphenyl	321-60-8	3027.8	86.500	% Recov	03/03/05	56.000	122.000	
MSD	Phenol	108-95-2	4421.6	84.200	% Recov	03/03/05	42.000	111.000	
MSD	Nitrobenzene-d5	4165-60-0	2983.2	85.300	% Recov	03/03/05	64.000	111.000	
MSD	4-Nitrophenol	100-02-7	4062.2	77.400	% Recov	03/03/05	32.000	118.000	
MSD	Pentachlorophenol	87-86-5	4236.2	80.700	% Recov	03/03/05	62.000	114.000	
MSD	Phenol-d5	4165-62-2	2999.9	85.700	% Recov	03/03/05	54.000	120.000	
MSD	Pyrene	129-00-0	2856.4	81.600	% Recov	03/03/05	66.000	118.000	
MSD	2,4,6-Tribromophenol	118-79-6	2911.2	83.200	% Recov	03/03/05	24.000	122.000	
MSD	Terphenyl-d14 (7Cl)	98904-43-9	3054.2	87.300	% Recov	03/03/05	35.000	150.000	
SPK-RPD	1,2,4-Trichlorobenzene	120-82-1	87.300	3.820	RPD	03/03/05	0.000	20.000	
SPK-RPD	1,4-Dichlorobenzene	106-46-7	82.200	6.018	RPD	03/03/05	0.000	20.000	
SPK-RPD	2,4-Dinitrotoluene	121-14-2	76.200	1.949	RPD	03/03/05	0.000	20.000	
SPK-RPD	2-Fluorophenol	367-12-4	92.500	4.336	RPD	03/03/05	0.000	20.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20050300
 Matrix: SOLID
 Test: SW-846 8270B Semi-Vols

SAF Number: F04-015
 Sample Date: 02/16/05
 Receive Date: 02/16/05

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
SPK-RPD	Acenaphthene	83-32-9	84.300	7.424	RPD	03/03/05	0.000	20.000	
SPK-RPD	4-Chloro-3-methylphenol	59-50-7	83.600	2.597	RPD	03/03/05	0.000	20.000	
SPK-RPD	2-Chlorophenol	95-57-8	87.800	6.074	RPD	03/03/05	0.000	20.000	
SPK-RPD	N-Nitrosodi-n-dipropylamine	621-64-7	82.600	6.784	RPD	03/03/05	0.000	20.000	
SPK-RPD	2-Fluorobiphenyl	321-60-8	86.500	5.290	RPD	03/03/05	0.000	20.000	
SPK-RPD	Phenol	108-95-2	84.200	6.102	RPD	03/03/05	0.000	20.000	
SPK-RPD	Nitrobenzene-d5	4165-80-0	85.300	4.021	RPD	03/03/05	0.000	20.000	
SPK-RPD	4-Nitrophenol	100-02-7	77.400	3.953	RPD	03/03/05	0.000	20.000	
SPK-RPD	Pentachlorophenol	87-86-5	80.700	0.248	RPD	03/03/05	0.000	20.000	
SPK-RPD	Phenol-d5	4165-82-2	85.700	4.895	RPD	03/03/05	0.000	20.000	
SPK-RPD	Pyrene	129-00-0	81.800	2.899	RPD	03/03/05	0.000	20.000	
SPK-RPD	2,4,6-Tribromophenol	118-79-6	83.200	2.258	RPD	03/03/05	0.000	20.000	
SPK-RPD	Terphenyl-d14 (7CI)	98904-43-9	87.300	2.153	RPD	03/03/05	0.000	20.000	

BATCH QC

BLANK	1,2,4-Trichlorobenzene	120-82-1	< 180	n/a	ug/Kg	03/03/05		U
BLANK	1,4-Dichlorobenzene	106-46-7	< 270	n/a	ug/Kg	03/03/05		U
BLANK	2,4-Dinitrotoluene	121-14-2	< 110	n/a	ug/Kg	03/03/05		U
BLANK	2-Fluorophenol	367-12-4	3171.4	95.100	% Recov	03/03/05	42.000	105.000
BLANK	Acenaphthene	83-32-9	< 140	n/a	ug/Kg	03/03/05		U
BLANK	4-Chloro-3-methylphenol	59-50-7	< 93	n/a	ug/Kg	03/03/05		U
BLANK	2-Chlorophenol	95-57-8	< 150	n/a	ug/Kg	03/03/05		U
BLANK	N-Nitrosodi-n-dipropylamine	621-64-7	< 150	n/a	ug/Kg	03/03/05		U
BLANK	2-Fluorobiphenyl	321-60-8	3011.6	90.300	% Recov	03/03/05	56.000	122.000
BLANK	Phenol	108-95-2	< 140	n/a	ug/Kg	03/03/05		U
BLANK	Nitrobenzene-d5	4165-80-0	2945.4	88.400	% Recov	03/03/05	64.000	111.000
BLANK	4-Nitrophenol	100-02-7	< 170	n/a	ug/Kg	03/03/05		U
BLANK	Pentachlorophenol	87-86-5	< 150	n/a	ug/Kg	03/03/05		U
BLANK	Phenol-d5	4165-82-2	2969.0	89.100	% Recov	03/03/05	54.000	120.000
BLANK	Pyrene	129-00-0	< 160	n/a	ug/Kg	03/03/05		U

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20050300
 Matrix: SOLID
 Test: SW-846 8270B Semi-Vols

SAF Number: F04-015
 Sample Date:
 Receive Date:

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
BLANK	Tributyl phosphate	126-73-8	< 140	n/a	ug/Kg	03/03/05			U
BLANK	2,4,6-Tribromophenol	118-79-6	2743.5	82.300	% Recov	03/03/05	24.000	122.000	
BLANK	Terphenyl-d14 (7Cl)	98904-43-9	3047.2	91.400	% Recov	03/03/05	35.000	150.000	
LCS	1,2,4-Trichlorobenzene	120-82-1	2870.2	86.100	% Recov	03/03/05	46.000	107.000	
LCS	1,4-Dichlorobenzene	106-46-7	2787.1	83.600	% Recov	03/03/05	42.000	111.000	
LCS	2,4-Dinitrotoluene	121-14-2	2545.4	76.400	% Recov	03/03/05	59.000	106.000	
LCS	2-Fluorophenol	387-12-4	3014.3	90.400	% Recov	03/03/05	50.000	110.000	
LCS	Acenaphthene	83-32-9	2823.8	84.700	% Recov	03/03/05	61.000	116.000	
LCS	4-Chloro-3-methylphenol	59-50-7	4094.2	81.900	% Recov	03/03/05	61.000	106.000	
LCS	2-Chlorophenol	95-57-8	4432.8	88.700	% Recov	03/03/05	66.000	106.000	
LCS	N-Nitrosodi-n-dipropylamine	621-64-7	2762.3	82.900	% Recov	03/03/05	71.000	114.000	
LCS	2-Fluorobiphenyl	321-80-8	2861.1	85.800	% Recov	03/03/05	58.000	109.000	
LCS	Phenol	108-95-2	4285.5	85.300	% Recov	03/03/05	67.000	105.000	
LCS	Nitrobenzene-d5	4165-60-0	2787.8	83.600	% Recov	03/03/05	60.000	118.000	
LCS	4-Nitrophenol	100-02-7	3939.1	78.800	% Recov	03/03/05	32.000	118.000	
LCS	Pentachlorophenol	87-86-5	4038.2	80.800	% Recov	03/03/05	62.000	114.000	
LCS	Phenol-d5	4165-62-2	2832.5	85.000	% Recov	03/03/05	59.000	116.000	
LCS	Pyrene	129-00-0	2662.2	79.900	% Recov	03/03/05	66.000	118.000	
LCS	2,4,6-Tribromophenol	118-79-6	2827.6	84.800	% Recov	03/03/05	60.000	120.000	
LCS	Terphenyl-d14 (7Cl)	98904-43-9	2806.8	84.200	% Recov	03/03/05	60.000	120.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20050300

Matrix: SOLID

Test: WTPH-D TPH Diesel Range (Wa)

SAF Number: F04-015

Sample Date: 02/07/05

Receive Date: 02/07/05

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
Lab ID: W050000409									
BATCH QC ASSOCIATED WITH SAMPLE									
SURR	ortho-Terphenyl	Surr	84-15-1	23989	90.400	% Recov	03/03/05	70.000	130.000
Lab ID: W050000410									
BATCH QC ASSOCIATED WITH SAMPLE									
SURR	ortho-Terphenyl	Surr	84-15-1	24571	94.800	% Recov	03/03/05	70.000	130.000
Lab ID: W050000556									
BATCH QC ASSOCIATED WITH SAMPLE									
MS	Kerosene		TPHKEROSENE	105340	80.300	% Recov	03/03/05	70.000	130.000
MS	ortho-Terphenyl	Surr	84-15-1	21744	82.900	% Recov	03/03/05	70.000	130.000
MSD	Kerosene		TPHKEROSENE	114090	87.100	% Recov	03/03/05	70.000	130.000
MSD	ortho-Terphenyl	Surr	84-15-1	24324	92.900	% Recov	03/03/05	70.000	130.000
SPK-RPD	ortho-Terphenyl	Surr	84-15-1	92.900	11.377	RPD	03/03/05	0.000	20.000
BATCH QC									
BLANK	Kerosene		TPHKEROSENE	< 3800	n/a	ug/Kg	03/03/05		U
BLANK	ortho-Terphenyl	Surr	84-15-1	23335	93.300	% Recov	03/03/05	70.000	130.000
BLANK	Total Pet. Hydrocarbons Diesel		TPHDIESEL	< 3800	n/a	ug/Kg	03/03/05		U
LCS	ortho-Terphenyl	Surr	84-15-1	24737	98.900	% Recov	03/03/05	70.000	130.000
LCS	Total Pet. Hydrocarbons Diesel		TPHDIESEL	127210	102.000	% Recov	03/03/05	80.000	120.000

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20050300

Matrix: SOLID

Test: NWTPH-GX TPH Gasoline Range

SAF Number: F04-015

Sample Date: 02/04/05

Receive Date: 02/04/05

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
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Lab ID: W050000340

BATCH QC ASSOCIATED WITH SAMPLE

DUP	Total Pet. Hydrocarbons Gas	TPHGASOLINE	<250	n/a	RPD	02/18/05	0.000	20.000	U
MS	Total Pet. Hydrocarbons Gas	TPHGASOLINE	1400	107.692	% Recov	02/18/05	50.000	150.000	
MSD	Total Pet. Hydrocarbons Gas	TPHGASOLINE	1500	115.385	% Recov	02/18/05	50.000	150.000	
SPK-RPD	Total Pet. Hydrocarbons Gas	TPHGASOLINE	115.385	6.897	RPD	02/18/05	0.000	20.000	

BATCH QC

BLANK	Total Pet. Hydrocarbons Gas	TPHGASOLINE	<250	n/a	mg/L	02/18/05	0.000	300.000	U
LCS	Total Pet. Hydrocarbons Gas	TPHGASOLINE	1200	92.308	% Recov	02/18/05	85.000	115.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20050300

Matrix: SOLID

Test: VOA Ground Water Protection

SAF Number: F04-015

Sample Date: 02/03/05

Receive Date: 02/03/05

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
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Lab ID: W050000298

BATCH QC ASSOCIATED WITH SAMPLE

MS	1,1-Dichloroethene	75-35-4	23.520	94.100	% Recov	02/15/05	63.000	117.000	
MS	Benzene	71-43-2	27.020	108.000	% Recov	02/15/05	75.000	129.000	
MS	4-Bromofluorobenzene	460-00-4	56.110	112.000	% Recov	02/15/05	84.000	116.000	
MS	Chlorobenzene	108-90-7	27.470	110.000	% Recov	02/15/05	79.000	119.000	
MS	1,2-Dichloroethane-d4	17060-07-0	57.110	114.000	% Recov	02/15/05	82.000	136.000	
MS	Toluene-d8	2037-26-5	53.530	107.000	% Recov	02/15/05	89.000	119.000	
MS	Toluene	108-88-3	26.890	108.000	% Recov	02/15/05	78.000	120.000	
MS	Trichloroethene	79-01-6	26.160	105.000	% Recov	02/15/05	73.000	123.000	
MSD	1,1-Dichloroethene	75-35-4	24.770	99.100	% Recov	02/15/05	63.000	117.000	
MSD	Benzene	71-43-2	27.710	111.000	% Recov	02/15/05	75.000	129.000	
MSD	4-Bromofluorobenzene	460-00-4	53.720	107.000	% Recov	02/15/05	84.000	116.000	
MSD	Chlorobenzene	108-90-7	27.450	110.000	% Recov	02/15/05	79.000	119.000	
MSD	1,2-Dichloroethane-d4	17060-07-0	55.810	111.000	% Recov	02/15/05	82.000	136.000	
MSD	Toluene-d8	2037-26-5	51.590	103.000	% Recov	02/15/05	89.000	119.000	
MSD	Toluene	108-88-3	25.640	103.000	% Recov	02/15/05	78.000	120.000	
MSD	Trichloroethene	79-01-6	26.530	106.000	% Recov	02/15/05	73.000	123.000	
SPK-RPD	1,1-Dichloroethene	75-35-4	99.100	5.176	RPD	02/15/05	0.000	25.000	
SPK-RPD	Benzene	71-43-2	111.000	2.740	RPD	02/15/05	0.000	25.000	
SPK-RPD	4-Bromofluorobenzene	460-00-4	107.000	4.566	RPD	02/15/05	0.000	25.000	
SPK-RPD	Chlorobenzene	108-90-7	110.000	0.000	RPD	02/15/05	0.000	25.000	
SPK-RPD	1,2-Dichloroethane-d4	17060-07-0	111.000	2.667	RPD	02/15/05	0.000	25.000	
SPK-RPD	Toluene-d8	2037-26-5	103.000	3.810	RPD	02/15/05	0.000	25.000	
SPK-RPD	Toluene	108-88-3	103.000	4.739	RPD	02/15/05	0.000	25.000	
SPK-RPD	Trichloroethene	79-01-6	106.000	0.948	RPD	02/15/05	0.000	25.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20050300

Matrix: SOLID

Test: VOA Ground Water Protection

SAF Number: F04-015

Sample Date: 02/07/05

Receive Date: 02/07/05

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
Lab ID: W050000409									
BATCH QC ASSOCIATED WITH SAMPLE									
SURR	4-Bromofluorobenzene	460-00-4	55.170	110.000	% Recov	02/15/05	71.000	125.000	
SURR	1,2-Dichloroethane-d4	17060-07-0	55.590	111.000	% Recov	02/15/05	80.000	134.000	
SURR	Toluene-d8	2037-26-5	52.590	105.000	% Recov	02/15/05	80.000	126.000	
Lab ID: W050000410									
BATCH QC ASSOCIATED WITH SAMPLE									
SURR	4-Bromofluorobenzene	460-00-4	55.630	111.000	% Recov	02/15/05	71.000	125.000	
SURR	1,2-Dichloroethane-d4	17060-07-0	57.310	115.000	% Recov	02/15/05	80.000	134.000	
SURR	Toluene-d8	2037-26-5	53.410	107.000	% Recov	02/15/05	80.000	126.000	
BATCH QC									
BLANK	1,1-Dichloroethane	75-34-3	< 2.0	n/a	ug/Kg	02/15/05			U
BLANK	1,1,1-Trichloroethane	71-55-6	< 2.0	n/a	ug/Kg	02/15/05			U
BLANK	1,1,2-Trichloroethane	79-00-5	< 2.0	n/a	ug/Kg	02/15/05			U
BLANK	1,1,2,2-Tetrachloroethane	79-34-5	< 2.0	n/a	ug/Kg	02/15/05			U
BLANK	1,1-Dichloroethene	75-35-4	< 2.0	n/a	ug/Kg	02/15/05			U
BLANK	1,2-Dichloroethane	107-06-2	< 2.0	n/a	ug/Kg	02/15/05			U
BLANK	1,2-Dichloroethene(Total)	540-59-0	< 2.0	n/a	ug/Kg	02/15/05			U
BLANK	1-Butanol	71-36-3	< 40	n/a	ug/Kg	02/15/05			U
BLANK	2-Hexanone	591-78-6	< 2.0	n/a	ug/Kg	02/15/05			U
BLANK	4-Methyl-2-Pentanone	108-10-1	< 2.0	n/a	ug/Kg	02/15/05			U
BLANK	Acetone	67-64-1	< 2.0	n/a	ug/Kg	02/15/05			U
BLANK	Bromodichloromethane	75-27-4	< 2.0	n/a	ug/Kg	02/15/05			U
BLANK	Benzene	71-43-2	< 2.0	n/a	ug/Kg	02/15/05			U
BLANK	4-Bromofluorobenzene	460-00-4	55.000	110.000	% Recov	02/15/05	71.000	125.000	
BLANK	Bromoform	75-25-2	< 2.0	n/a	ug/Kg	02/15/05			U
BLANK	n-Butylbenzene	104-51-8	< 2.0	n/a	ug/Kg	02/15/05			U

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20050300

Matrix: SOLID

Test: VOA Ground Water Protection

SAF Number: F04-015

Sample Date:

Receive Date:

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
BLANK	Carbon disulfide	75-15-0	< 2.0	n/a	ug/Kg	02/15/05			U
BLANK	Carbon tetrachloride	56-23-5	< 2.0	n/a	ug/Kg	02/15/05			U
BLANK	Dibromochloromethane	124-48-1	< 2.0	n/a	ug/Kg	02/15/05			U
BLANK	Chloroform	67-66-3	< 2.0	n/a	ug/Kg	02/15/05			U
BLANK	Chlorobenzene	108-90-7	< 2.0	n/a	ug/Kg	02/15/05			U
BLANK	cis-1,2-Dichloroethylene	156-59-2	< 2.0	n/a	ug/Kg	02/15/05			U
BLANK	cis-1,3-Dichloropropene	10061-01-5	< 2.0	n/a	ug/Kg	02/15/05			U
BLANK	Chloroethane	75-00-3	< 2.0	n/a	ug/Kg	02/15/05			U
BLANK	1,2-Dichloroethane-d4	17060-07-0	52.140	104.000	% Recov	02/15/05	80.000	134.000	
BLANK	trans-1,2-Dichloroethylene	156-60-5	< 2.0	n/a	ug/Kg	02/15/05			U
BLANK	1,2-Dichloropropene	78-87-5	< 2.0	n/a	ug/Kg	02/15/05			U
BLANK	Ethylbenzene	100-41-4	< 2.0	n/a	ug/Kg	02/15/05			U
BLANK	Bromomethane	74-83-9	< 2.0	n/a	ug/Kg	02/15/05			U
BLANK	Chloromethane	74-87-3	< 2.0	n/a	ug/Kg	02/15/05			U
BLANK	2-Butanone	78-83-3	< 2.0	n/a	ug/Kg	02/15/05			U
BLANK	Methylenechloride	75-09-2	< 2.0	n/a	ug/Kg	02/15/05			U
BLANK	Tetrachloroethene	127-18-4	< 2.0	n/a	ug/Kg	02/15/05			U
BLANK	Styrene	100-42-5	< 2.0	n/a	ug/Kg	02/15/05			U
BLANK	Xylenes (total)	1330-20-7	< 2.0	n/a	ug/Kg	02/15/05			U
BLANK	Toluene-d8	2037-28-5	53.040	106.000	% Recov	02/15/05	80.000	126.000	
BLANK	Toluene	108-88-3	< 2.0	n/a	ug/Kg	02/15/05			U
BLANK	trans-1,3-Dichloropropene	10061-02-6	< 2.0	n/a	ug/Kg	02/15/05			U
BLANK	Trichloroethene	79-01-6	< 2.0	n/a	ug/Kg	02/15/05			U
BLANK	Vinyl chloride	75-01-4	< 2.0	n/a	ug/Kg	02/15/05			U
LCS	1,1-Dichloroethene	75-35-4	22.760	91.000	% Recov	02/15/05	70.000	130.000	
LCS	Benzene	71-43-2	26.130	105.000	% Recov	02/15/05	70.000	130.000	
LCS	4-Bromofluorobenzene	460-00-4	56.050	112.000	% Recov	02/15/05	71.000	125.000	
LCS	Chlorobenzene	108-90-7	26.780	107.000	% Recov	02/15/05	70.000	130.000	
LCS	1,2-Dichloroethane-d4	17060-07-0	56.640	113.000	% Recov	02/15/05	80.000	134.000	
LCS	Toluene-d8	2037-28-5	53.060	106.000	% Recov	02/15/05	80.000	126.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20050300

Matrix: SOLID

Test: VOA Ground Water Protection

SAF Number: F04-015

Sample Date:

Receive Date:

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
LCS	Toluene	108-88-3	28.090	104.000	% Recov	02/15/05	70.000	130.000	
LCS	Trichloroethene	79-01-6	25.180	101.000	% Recov	02/15/05	70.000	130.000	

WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent **Group #:** WSCF20050300
Project: F04-015: F04-015

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze Sample Receive		
Radiochemistry													
W050000409	B19PN1	GRP	TRENT	14596-10-2	Americium-241	SOIL	LA-508-471	U	-3.40e-03	pCi/g	1.00	0.034	02/28/05 02/07/05 02/07/05
W050000409	B19PN1	GRP	TRENT	E,T,C	Am-241 by AEA Total Cntg Error	SOIL	LA-508-471	+-	0.017	pCi/g	1.00	0.0	02/28/05 02/07/05 02/07/05
W050000409	B19PN1	GRP	TRENT	10198-40-0	Cobalt-60	SOIL	LA-508-481	U	-2.24e-03	pCi/g	1.00	9.0e-03	02/09/05 02/07/05 02/07/05
W050000409	B19PN1	GRP	TRENT	E,T,C	Co-60 Rel. Count Error (GEA)	SOIL	LA-508-481	+-	5.4e-03	pCi/g	1.00	0.0	02/09/05 02/07/05 02/07/05
W050000409	B19PN1	GRP	TRENT	10045-97-3	Cesium-137	SOIL	LA-508-481	U	-7.59e-03	pCi/g	1.00	9.4e-03	02/09/05 02/07/05 02/07/05
W050000409	B19PN1	GRP	TRENT	E,T,C	Cs-137 Rel. Count Error (GEA)	SOIL	LA-508-481	+-	7.6e-03	pCi/g	1.00	0.0	02/09/05 02/07/05 02/07/05
W050000409	B19PN1	GRP	TRENT	14683-23-9	Europium-152	SOIL	LA-508-481	U	9.50e-04	pCi/g	1.00	0.029	02/09/05 02/07/05 02/07/05
W050000409	B19PN1	GRP	TRENT	E,T,C	Eu-152 Rel. Count Error (GEA)	SOIL	LA-508-481	+-	9.5e-03	pCi/g	1.00	0.0	02/09/05 02/07/05 02/07/05
W050000409	B19PN1	GRP	TRENT	15585-10-1	Europium-154	SOIL	LA-508-481	U	1.88e-03	pCi/g	1.00	0.028	02/09/05 02/07/05 02/07/05
W050000409	B19PN1	GRP	TRENT	E,T,C	Eu-154 Rel. Count Error (GEA)	SOIL	LA-508-481	+-	0.018	pCi/g	1.00	0.0	02/09/05 02/07/05 02/07/05
W050000409	B19PN1	GRP	TRENT	14391-16-3	Europium-155	SOIL	LA-508-481		0.0517	pCi/g	1.00	0.042	02/09/05 02/07/05 02/07/05
W050000409	B19PN1	GRP	TRENT	E,T,C	Eu-155 Rel. Count Error (GEA)	SOIL	LA-508-481	+-	0.037	pCi/g	1.00	0.0	02/09/05 02/07/05 02/07/05
W050000409	B19PN1	GRP	TRENT	13981-16-3	Plutonium-238	SOIL	LA-508-471	U	-4.10e-03	pCi/g	1.00	0.063	02/28/05 02/07/05 02/07/05
W050000409	B19PN1	GRP	TRENT	E,T,C	Pu-238 by AEA Total Cntg Error	SOIL	LA-508-471	+-	0.034	pCi/g	1.00	0.0	02/28/05 02/07/05 02/07/05
W050000409	B19PN1	GRP	TRENT	PU-239/240	Pu-239/240 by AEA	SOIL	LA-508-471	U	0.0120	pCi/g	1.00	0.019	02/28/05 02/07/05 02/07/05
W050000409	B19PN1	GRP	TRENT	E,T,C	Pu-239/240 AEA Total Cntg Err	SOIL	LA-508-471	+-	0.013	pCi/g	1.00	0.0	02/28/05 02/07/05 02/07/05
W050000409	B19PN1	GRP	TRENT	SR-RAD	Strontrium-89/90	SOIL	LA-508-415	U	-0.0560	pCi/g	1.00	0.20	02/23/05 02/07/05 02/07/05
W050000409	B19PN1	GRP	TRENT	E,T,C	Sr-89/90 Rel. Count Error	SOIL	LA-508-415	+-	0.29	pCi/g	1.00	0.0	02/23/05 02/07/05 02/07/05
W050000409	B19PN1	GRP	TRENT	U-233/234	Uranium-233/234	SOIL	LA-508-471		0.170	pCi/g	1.00	4.8e-03	02/28/05 02/07/05 02/07/05
W050000409	B19PN1	GRP	TRENT	E,T,C	U-233/234 AEA Total Cntg Error	SOIL	LA-508-471	+-	0.051	pCi/g	1.00	0.0	02/28/05 02/07/05 02/07/05
W050000409	B19PN1	GRP	TRENT	15117-96-1	Uranium-235	SOIL	LA-508-471		0.0130	pCi/g	1.00	8.0e-03	02/28/05 02/07/05 02/07/05
W050000409	B19PN1	GRP	TRENT	E,T,C	U-235 by AEA Total Cntg Error	SOIL	LA-508-471	+-	0.011	pCi/g	1.00	0.0	02/28/05 02/07/05 02/07/05
W050000409	B19PN1	GRP	TRENT	U-238	Uranium-238	SOIL	LA-508-471		0.160	pCi/g	1.00	4.8e-03	02/28/05 02/07/05 02/07/05
W050000409	B19PN1	GRP	TRENT	E,T,C	U-238 by AEA Total Cntg Error	SOIL	LA-508-471	+-	0.048	pCi/g	1.00	0.10	02/28/05 02/07/05 02/07/05
W050000410	B19PN2	GRP	TRENT	14596-10-2	Americium-241	SOIL	LA-508-471	U	0.0140	pCi/g	1.00	0.039	02/28/05 02/07/05 02/07/05
W050000410	B19PN2	GRP	TRENT	E,T,C	Am-241 by AEA Total Cntg Error	SOIL	LA-508-471	+-	0.024	pCi/g	1.00	0.0	02/28/05 02/07/05 02/07/05

MDL=Minimum Detection Limit

U - Analyzed for but not detected above limiting criteria.

RQ=Result Qualifier

DF=Dilution Factor

* - Indicates results that have NOT been validated; + - Indicates more than six qualifier symbols

Report WGPP/ver. 1.1

Groundwater Remediation Program

WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
Project: F04-015: F04-015

Group #: WSCF20050300

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF		Unit	DF	MDL	Analyze Sample	Receive		
					Method	RQ							
W050000410	B19PN2	GRP	TRENT	10198-40-0	Cobalt-60	SOIL	LA-508-481	U	9.38e-04	pCi/g	1.00	0.011	02/09/05 02/07/05 02/07/05
W050000410	B19PN2	GRP	TRENT	E,T,C	Co-60 Rel. Count Error (GEA)	SOIL	LA-508-481	+ -	6.4e-03	pCi/g	1.00	0.0	02/09/05 02/07/05 02/07/05
W050000410	B19PN2	GRP	TRENT	10045-97-3	Cesium-137	SOIL	LA-508-481	U	-1.25e-03	pCi/g	1.00	0.010	02/09/05 02/07/05 02/07/05
W050000410	B19PN2	GRP	TRENT	E,T,C	Cs-137 Rel. Count Error (GEA)	SOIL	LA-508-481	+ -	7.0e-03	pCi/g	1.00	0.0	02/09/05 02/07/05 02/07/05
W050000410	B19PN2	GRP	TRENT	14683-23-9	Europium-152	SOIL	LA-508-481	U	7.54e-03	pCi/g	1.00	0.032	02/09/05 02/07/05 02/07/05
W050000410	B19PN2	GRP	TRENT	E,T,C	Eu-152 Rel. Count Error (GEA)	SOIL	LA-508-481	+ -	0.021	pCi/g	1.00	0.0	02/09/05 02/07/05 02/07/05
W050000410	B19PN2	GRP	TRENT	15585-10-1	Europium-154	SOIL	LA-508-481	U	0.0244	pCi/g	1.00	0.033	02/09/05 02/07/05 02/07/05
W050000410	B19PN2	GRP	TRENT	E,T,C	Eu-154 Rel. Count Error (GEA)	SOIL	LA-508-481	+ -	0.032	pCi/g	1.00	0.0	02/09/05 02/07/05 02/07/05
W050000410	B19PN2	GRP	TRENT	14391-16-3	Europium-155	SOIL	LA-508-481		0.0379	pCi/g	1.00	0.046	02/09/05 02/07/05 02/07/05
W050000410	B19PN2	GRP	TRENT	E,T,C	Eu-155 Rel. Count Error (GEA)	SOIL	LA-508-481	+ -	0.035	pCi/g	1.00	0.0	02/09/05 02/07/05 02/07/05
W050000410	B19PN2	GRP	TRENT	13981-18-3	Plutonium-238	SOIL	LA-508-471	U	-0.0240	pCi/g	1.00	0.051	02/28/05 02/07/05 02/07/05
W050000410	B19PN2	GRP	TRENT	E,T,C	Pu-238 by AEA Total Cntg Error	SOIL	LA-508-471	+ -	0.026	pCi/g	1.00	0.0	02/28/05 02/07/05 02/07/05
W050000410	B19PN2	GRP	TRENT	PU-239/240	Pu-239/240 by AEA	SOIL	LA-508-471	U	3.20e-03	pCi/g	1.00	0.012	02/28/05 02/07/05 02/07/05
W050000410	B19PN2	GRP	TRENT	E,T,C	Pu-239/240 AEA Total Cntg Err	SOIL	LA-508-471	+ -	6.4e-03	pCi/g	1.00	0.0	02/28/05 02/07/05 02/07/05
W050000410	B19PN2	GRP	TRENT	SR-RAD	Strontrium-89/90	SOIL	LA-508-415	U	-0.0810	pCi/g	1.00	0.20	02/23/05 02/07/05 02/07/05
W050000410	B19PN2	GRP	TRENT	E,T,C	Sr-89/90 Rel. Count Error	SOIL	LA-508-415	+ -	0.28	pCi/g	1.00	0.0	02/23/05 02/07/05 02/07/05
W050000410	B19PN2	GRP	TRENT	U-233/234	Uranium-233/234	SOIL	LA-508-471		0.140	pCi/g	1.00	4.1e-03	02/28/05 02/07/05 02/07/05
W050000410	B19PN2	GRP	TRENT	E,T,C	U-233/234 AEA Total Cntg Error	SOIL	LA-508-471	+ -	0.042	pCi/g	1.00	0.0	02/28/05 02/07/05 02/07/05
W050000410	B19PN2	GRP	TRENT	15117-96-1	Uranium-235	SOIL	LA-508-471		0.0150	pCi/g	1.00	5.0e-03	02/28/05 02/07/05 02/07/05
W050000410	B19PN2	GRP	TRENT	E,T,C	U-235 by AEA Total Cntg Error	SOIL	LA-508-471	+ -	0.011	pCi/g	1.00	0.0	02/28/05 02/07/05 02/07/05
W050000410	B19PN2	GRP	TRENT	U-238	Uranium-238	SOIL	LA-508-471		0.120	pCi/g	1.00	0.011	02/28/05 02/07/05 02/07/05
W050000410	B19PN2	GRP	TRENT	E,T,C	U-238 by AEA Total Cntg Error	SOIL	LA-508-471	+ -	0.037	pCi/g	1.00	0.10	02/28/05 02/07/05 02/07/05

MDL=Minimum Detection Limit

U - Analyzed for but not detected above limiting criteria.

RQ=Result Qualifier

DF=Dilution Factor

* - Indicates results that have NOT been validated; + - Indicates more than six qualifier symbols

Report WGPP/ver. 1.1

Groundwater Remediation Program

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20050300
 Matrix: SOLID
 Test: Americium by AEA

SAF Number: F04-015
 Sample Date: 02/02/05
 Receive Date: 02/02/05

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
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Lab ID: W050000288

BATCH QC ASSOCIATED WITH SAMPLE

DUP	Americium-241	14598-10-2	2.4e+00	4.255	RPD	02/28/05	0.000	20.000
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BATCH QC

BLANK	Americium-241	14598-10-2	1.8e-02	0.018	pCi/g	02/28/05	-10.000	1000.000
LCS	Americium-241	14598-10-2	4.2e+01	87.318	% Recov	02/28/05	75.000	125.000

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20050300

Matrix: SOLID

Test: Gamma Energy Analysis-grd H₂O

SAF Number: F04-015

Sample Date: 02/07/05

Receive Date: 02/07/05

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
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Lab ID: W050000409

BATCH QC ASSOCIATED WITH SAMPLE

DUP	Cobalt-60	10198-40-0	U-3.43e-3	n/a	RPD	02/09/05	0.000	20.000	
DUP	Cesium-137	10045-97-3	U1.18e-03	n/a	RPD	02/09/05	0.000	20.000	
DUP	Europium-152	14683-23-9	U9.03e-04	n/a	RPD	02/09/05	0.000	20.000	
DUP	Europium-154	15585-10-1	U-6.29e-3	n/a	RPD	02/09/05	0.000	20.000	
DUP	Europium-155	14391-16-3	6.98e-02	29.794	RPD	02/09/05	0.000	20.000	*

BATCH QC

BLANK	Cobalt-60	10198-40-0	U1.03e-4	n/a	pCi/g	02/14/05	-10.000	1000.000	
BLANK	Cesium-137	10045-97-3	U-2.9e-3	n/a	pCi/g	02/14/05	-10.000	1000.000	
BLANK	Europium-152	14683-23-9	U2.98e-3	n/a	pCi/g	02/14/05	-10.000	1000.000	
BLANK	Europium-154	15585-10-1	U-3.1e-3	n/a	pCi/g	02/14/05	-10.000	1000.000	
BLANK	Europium-155	14391-16-3	U-4.3e-3	n/a	pCi/g	02/14/05	-10.000	1000.000	
LCS	Cobalt-60	10198-40-0	4.48e+03	106.921	% Recov	02/14/05	80.000	120.000	
LCS	Cesium-137	10045-97-3	3.90e+03	108.939	% Recov	02/14/05	80.000	120.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20050300

SAF Number: F04-015

Matrix: SOLID

Sample Date: 02/02/05

Test: Plutonium Isotopes by AEA

Receive Date: 02/02/05

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
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Lab ID: W050000288

BATCH QC ASSOCIATED WITH SAMPLE

DUP	Pu-239/240 by AEA	PU-239/240	6.0e+01	4.878	RPD	02/28/05	0.000	20.000	
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BATCH QC

BLANK	Pu-239/240 by AEA	PU-239/240	1.4e-02	0.014	pCi/g	02/28/05	-10.000	1000.000	
LCS	Pu-239/240 by AEA	PU-239/240	4.7e+01	95.528	% Recov	02/28/05	75.000	125.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20050300
 Matrix: SOLID
 Test: Strontium 89/90

SAF Number: F04-015
 Sample Date: 02/02/05
 Receive Date: 02/02/05

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
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Lab ID: W050000288

BATCH QC ASSOCIATED WITH SAMPLE

DUP	Strontium-89/90	SR-RAD	5.2e+01	5.941	RPD	02/23/05	0.000	20.000	
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BATCH QC

BLANK	Strontium-89/90	10098-97-2	1.3e-01	0.130	pCi/g	02/23/05	-10.000	300.000	
LCS	Strontium-89/90	10098-97-2	71.5	100.563	% Recov	02/23/05	80.000	120.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20050300
 Matrix: SOLID
 Test: Uranium Isotopes by AEA

SAF Number: F04-015
 Sample Date: 02/02/05
 Receive Date: 02/02/05

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
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Lab ID: W050000288

BATCH QC ASSOCIATED WITH SAMPLE

DUP	Uranium-238	U-238	8.1e-01	1.242	RPD	02/28/05	0.000	20.000	
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BATCH QC

BLANK	Uranium-238	24878-82-8	2.6e-02	0.026	pCi/g	02/28/05	-10.000	1000.000	
LCS	Uranium-238	24878-82-8	9.3e + 01	122.659	% Recov	02/28/05	75.000	125.000	

WSCF
ANALYTICAL COMMENT REPORT

Attention: Steve Trent
Project Number F04-015

Group #: WSCF20050300

Sample #	Client ID	Lab Area	Test	Comment
		VALGROUP		ICP-MS: U LCS recovery is within specifications; no flag.
				Eu155 duplicate from the GEA test is flagged but is only slightly out of range. The sample is low level so the RPD criterion does not apply in this case.lmh
				Organics: Sample concentrations have been corrected for moisture and are reported on a dry weight basis. den

Lab Areas: VALGROUP - Group Validation
LOGSAMP - Login for Sample

VALTEST - Test Validation
LOGTEST - Login for Tests

TESTDATA - Test Data Entry

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WSCF
TENTATIVELY IDENTIFIED PEAK REPORT

Attention:
Project Number Steve Trent
 F04-015 :F04-015

Group #: WSCF20050300

Sample #	Client ID			Test Name	Peak Name	CAS#	RT	RQ	Result	Units
W050000409	B19PN1	GRP	TRENT	Gamma Energy Analysis-grd H2O	PB-212 Count Error				13	%
W050000409	B19PN1	GRP	TRENT	Gamma Energy Analysis-grd H2O	K-40 Count Error				14	%
W050000409	B19PN1	GRP	TRENT	Gamma Energy Analysis-grd H2O	PB-214 Count Error				14	%
W050000409	B19PN1	GRP	TRENT	Gamma Energy Analysis-grd H2O	TL-208 Count Error				16	%
W050000409	B19PN1	GRP	TRENT	Gamma Energy Analysis-grd H2O	BI-214 Count Error				16	%
W050000409	B19PN1	GRP	TRENT	Gamma Energy Analysis-grd H2O	RA-226 Count Error				16	%
W050000409	B19PN1	GRP	TRENT	Gamma Energy Analysis-grd H2O	AC-228 Count Error				17	%
W050000409	B19PN1	GRP	TRENT	Gamma Energy Analysis-grd H2O	RA-228 Count Error				17	%
W050000409	B19PN1	GRP	TRENT	Gamma Energy Analysis-grd H2O	SN-126 Count Error				21	%
W050000409	B19PN1	GRP	TRENT	Gamma Energy Analysis-grd H2O	BI-212 Count Error				23	%
W050000409	B19PN1	GRP	TRENT	Gamma Energy Analysis-grd H2O	U-235 Count Error				23	%
W050000409	B19PN1	GRP	TRENT	Gamma Energy Analysis-grd H2O	CS-134 Count Error				36	%
W050000409	B19PN1	GRP	TRENT	Gamma Energy Analysis-grd H2O	CS-134				0.033	pCi/g
W050000409	B19PN1	GRP	TRENT	Gamma Energy Analysis-grd H2O	U-235				0.086	pCi/g
W050000409	B19PN1	GRP	TRENT	Gamma Energy Analysis-grd H2O	SN-126				0.18	pCi/g
W050000409	B19PN1	GRP	TRENT	Gamma Energy Analysis-grd H2O	TL-208				0.25	pCi/g
W050000409	B19PN1	GRP	TRENT	Gamma Energy Analysis-grd H2O	BI-212				0.53	pCi/g
W050000409	B19PN1	GRP	TRENT	Gamma Energy Analysis-grd H2O	BI-214				0.54	pCi/g
W050000409	B19PN1	GRP	TRENT	Gamma Energy Analysis-grd H2O	RA-226				0.54	pCi/g
W050000409	B19PN1	GRP	TRENT	Gamma Energy Analysis-grd H2O	PB-214				0.61	pCi/g
W050000409	B19PN1	GRP	TRENT	Gamma Energy Analysis-grd H2O	AC-228				0.83	pCi/g
W050000409	B19PN1	GRP	TRENT	Gamma Energy Analysis-grd H2O	RA-228				0.83	pCi/g
W050000409	B19PN1	GRP	TRENT	Gamma Energy Analysis-grd H2O	PB-212				0.86	pCi/g
W050000409	B19PN1	GRP	TRENT	Gamma Energy Analysis-grd H2O	K-40				11	pCi/g
W050000410	B19PN2	GRP	TRENT	Gamma Energy Analysis-grd H2O	PB-212 Count Error				13	%

RQ=Result Qualifier

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Groundwater Remediation Program

WGPPE v 1.1 Report #: 20050300

Report Date: 7-mar-2005

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WSCF
TENTATIVELY IDENTIFIED PEAK REPORT

Attention: Steve Trent
Project Number F04-015 :F04-015

Group #: WSCF20050300

Sample #	Client ID	Test Name	Peak Name	CAS#	RT	RQ	Result	Units
W050000410	B19PN2	GRP TRENT	Gamma Energy Analysis-grd H2O	K-40 Count Error			13	%
W050000410	B19PN2	GRP TRENT	Gamma Energy Analysis-grd H2O	PB-214 Count Error			14	%
W050000410	B19PN2	GRP TRENT	Gamma Energy Analysis-grd H2O	Bi-214 Count Error			16	%
W050000410	B19PN2	GRP TRENT	Gamma Energy Analysis-grd H2O	RA-226 Count Error			16	%
W050000410	B19PN2	GRP TRENT	Gamma Energy Analysis-grd H2O	TL-208 Count Error			16	%
W050000410	B19PN2	GRP TRENT	Gamma Energy Analysis-grd H2O	AC-228 Count Error			17	%
W050000410	B19PN2	GRP TRENT	Gamma Energy Analysis-grd H2O	RA-228 Count Error			17	%
W050000410	B19PN2	GRP TRENT	Gamma Energy Analysis-grd H2O	TH-234 Count Error			24	%
W050000410	B19PN2	GRP TRENT	Gamma Energy Analysis-grd H2O	Bi-212 Count Error			25	%
W050000410	B19PN2	GRP TRENT	Gamma Energy Analysis-grd H2O	SN-126 Count Error			27	%
W050000410	B19PN2	GRP TRENT	Gamma Energy Analysis-grd H2O	U-235 Count Error			30	%
W050000410	B19PN2	GRP TRENT	Gamma Energy Analysis-grd H2O	CS-134 Count Error			39	%
W050000410	B19PN2	GRP TRENT	Gamma Energy Analysis-grd H2O	CS-134			0.034	pCi/g
W050000410	B19PN2	GRP TRENT	Gamma Energy Analysis-grd H2O	U-235			0.081	pCi/g
W050000410	B19PN2	GRP TRENT	Gamma Energy Analysis-grd H2O	SN-126			0.12	pCi/g
W050000410	B19PN2	GRP TRENT	Gamma Energy Analysis-grd H2O	TL-208			0.23	pCi/g
W050000410	B19PN2	GRP TRENT	Gamma Energy Analysis-grd H2O	Bi-212			0.51	pCi/g
W050000410	B19PN2	GRP TRENT	Gamma Energy Analysis-grd H2O	PB-214			0.59	pCi/g
W050000410	B19PN2	GRP TRENT	Gamma Energy Analysis-grd H2O	Bi-214			0.60	pCi/g
W050000410	B19PN2	GRP TRENT	Gamma Energy Analysis-grd H2O	RA-226			0.60	pCi/g
W050000410	B19PN2	GRP TRENT	Gamma Energy Analysis-grd H2O	AC-228			0.70	pCi/g
W050000410	B19PN2	GRP TRENT	Gamma Energy Analysis-grd H2O	RA-228			0.70	pCi/g
W050000410	B19PN2	GRP TRENT	Gamma Energy Analysis-grd H2O	PB-212			0.73	pCi/g
W050000410	B19PN2	GRP TRENT	Gamma Energy Analysis-grd H2O	K-40			17	pCi/g
W050000410	B19PN2	GRP TRENT	SW-846 8270B Semi-Vols	SMP 18.528 Di-n-butylphthalate	84-74-2	16.5264	3.6e+02	ug/kg

RQ=Result Qualifier

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Groundwater Remediation Program

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Report Date: 7-mar-2005

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WSCF
TENTATIVELY IDENTIFIED PEAK REPORT

Attention:
Project Number Steve Trent
 F04-015 :F04-015

Group #: WSCF20050300

Sample #	Client ID	Test Name	Peak Name	CAS#	RT	RQ	Result	Units
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RQ=Result Qualifier

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Groundwater Remediation Program

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Report Date: 7-mar-2005

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WSCF

METHOD REFERENCES REPORT

The results provided in this report were generated using the following WSCF Laboratory procedures. For your convenience, this table provides a listing of the regulatory or industry methods that are referenced by each of these WSCF procedures. Please note that the most recent version of the regulatory or industry method is listed here even though the WSCF procedure may reference an older version of the method. Also, a reference to a regulatory or industry method here does not necessarily indicate a verbatim implementation of that method.

LA-212-411	Determination of Soil pH Measurement EPA SW-846 9045C	SOIL AND WASTE pH
LA-505-412	LA-505-412: DETERMINATION OF TRACE ELEMENTS IN WATERS AND WASTES BY INDUCTIVELY EPA-600/R-94-111 200.8	DETERMINATION OF TRACE ELEMENTS IN WATERS AND WASTES BY INDUCTIVELY COUPLED PLAS
LA-508-415	LA-508-415: OPERATION OF THE PROTEAN 2-INCH ALPHA/BETA COUNTING SYSTEM FOR GROSS None	No reference to any industry method.
LA-508-471	LA-508-471: ALPHA ENERGY ANALYZER DATA ACQUISITION AND SYSTEM CHECKOUT USING ALP None	No reference to any industry method.
LA-508-481	LA-508-481: GAMMA ENERGY ANALYSIS USING PROCOUNT SOFTWARE None	No reference to any industry method.
LA-519-412	LA-519-412: TOTAL RESIDUE/% SOLIDS DRIED AT 103 - 105 C EPA-600/4-79-020 160.3	RESIDUE, TOTAL
	Standard Methods 2540B	Total Solids Dried at 103-105 C
LA-523-427	LA-523-427: POLYCHLORINATED BIPHENYLS (PCBs) BY GAS CHROMATOGRAPHY EPA SW-846 3510C	SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION
	EPA SW-846 3545	PRESSURIZED FLUID EXTRACTION (PFE)
	EPA SW-846 3665A	SULFURIC ACID/PERMANGANATE CLEANUP
	EPA SW-846 8000B	DETERMINATIVE CHROMATOGRAPHIC SEPARATIONS
	EPA SW-846 8082	POLYCHLORINATED BIPHENYLS (PCBs) BY GAS CHROMATOGRAPHY

Note: A complete list of WSCF analytical procedures and referenced regulatory or industry methods is available online at
<\\ap006\aspdocs\WSCF\Sample Mgmt\ProcedureMethodCrossReference.pdf>. This document includes on-line
links to full-text versions of the procedures and methods, where available.

WSCF

METHOD REFERENCES REPORT

The results provided in this report were generated using the following WSCF Laboratory procedures. For your convenience, this table provides a listing of the regulatory or industry methods that are referenced by each of these WSCF procedures. Please note that the most recent version of the regulatory or industry method is listed here even though the WSCF procedure may reference an older version of the method. Also, a reference to a regulatory or industry method here does not necessarily indicate a verbatim implementation of that method.

LA-523-443	LA-523-443: GAS CHROMATOGRAPH ANALYSIS OF GASOLINE RANGE TOTAL PETROLEUM HYDROCARBONS WDOE TPH NWTPH-G	Volatile Petroleum Products Method for Soil and Water
LA-523-455	LA-523-455: VOLATILE SAMPLE ANALYSIS BY SW-846 EPA SW-846 8000B EPA SW-846 8260B	DETERMINATIVE CHROMATOGRAPHIC SEPARATIONS VOLATILE ORGANIC COMPOUNDS BY GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)
LA-523-456	LA-523-456: SEMIVOLATILE SAMPLE ANALYSIS BY SW-846, METHOD 8270C EPA SW-846 8000B EPA SW-846 8270C	DETERMINATIVE CHROMATOGRAPHIC SEPARATIONS SEMIVOLATILE ORGANIC COMPOUNDS BY GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)
LA-533-410	LA-533-410: ANION ANALYSIS BY ION CHROMATOGRAPHY EPA-600/R-94-111 300	DETERMINATION OF INORGANIC ANIONS BY ION CHROMATOGRAPHY
LA-695-402	LA-695-402: DETERMINATION OF CYANIDE BY MIDIDISTILLATION AND SPECTROPHOTOMETRIC EPA-600/4-79-020 335.2	Cyanide, Total
NWTPH	NWTPH-Diesel and/or Gasoline WDOE NWTPH-Dx/Gx	Total Petroleum Hydrocarbons - Diesel/Gasoline

Note: A complete list of WSCF analytical procedures and referenced regulatory or industry methods is available online at
<\\ap006\aspdocs\WSCF\Sample Mgmt\ProcedureMethodCrossReference.pdf>. This document includes on-line
links to full-text versions of the procedures and methods, where available.

Report Date: 7-mar-2005

Report #: WSCF20050300

Report WGPPM/O

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W13q Worklist/Batch/QC Report for Group# WSCF20050300

WL#	S#	Batch	QC#	Tray	Type	Sample#	Test
				SAMPLE		W050000409	Percent Solids
				SAMPLE		W050000410	Percent Solids
				SAMPLE		W050000409	pH Soil and Waste Measurement
				SAMPLE		W050000410	pH Soil and Waste Measurement
25079	7	25436	28786	BLANK			ICP-2008 MS All possible metal
25079	8	25436	28786	LCS			ICP-2008 MS All possible metal
25079	10	25436	28786	MS		W050000340	ICP-2008 MS All possible metal
25079	11	25436	28786	MSD		W050000340	ICP-2008 MS All possible metal
25079	0	25436	28786	SPK-RPD		W050000340	ICP-2008 MS All possible metal
25079	12	25436	28786	SAMPLE		W050000409	ICP-2008 MS All possible metal
25079	13	25436	28786	SAMPLE		W050000410	ICP-2008 MS All possible metal
24979	1	25334	28817	BLANK			Gamma Energy Analysis-grd H2O
24979	2	25334	28817	LCS			Gamma Energy Analysis-grd H2O
24979	3	25334	28817	DUP		W050000409	Gamma Energy Analysis-grd H2O
24979	4	25334	28817	SAMPLE		W050000409	Gamma Energy Analysis-grd H2O
24979	5	25334	28817	SAMPLE		W050000410	Gamma Energy Analysis-grd H2O
25134	2	25493	28859	BLANK			Anions by Ion Chromatography
25134	15	25493	28859	BLANK			Anions by Ion Chromatography
25134	3	25493	28859	LCS			Anions by Ion Chromatography
25134	14	25493	28859	SAMPLE		W050000409	Anions by Ion Chromatography
25134	5	25493	28859	DUP		W050000410	Anions by Ion Chromatography
25134	6	25493	28859	MS		W050000410	Anions by Ion Chromatography
25134	7	25493	28859	MSD		W050000410	Anions by Ion Chromatography
25134	4	25493	28859	SAMPLE		W050000410	Anions by Ion Chromatography
			28864	BLANK			Cyanide by Midi/Spectrophotom
			28864	BLNK-PREP			Cyanide by Midi/Spectrophotom
			28864	LCS			Cyanide by Midi/Spectrophotom
			28864	MS		W050000296	Cyanide by Midi/Spectrophotom
			28864	MSD		W050000296	Cyanide by Midi/Spectrophotom
			28864	SPK-RPD		W050000296	Cyanide by Midi/Spectrophotom
			28864	SAMPLE		W050000409	Cyanide by Midi/Spectrophotom
			28864	SAMPLE		W050000410	Cyanide by Midi/Spectrophotom
25049	1	25403	28884	BLANK			Strontium 89/90
25049	2	25403	28884	LCS			Strontium 89/90
25049	3	25403	28884	DUP		W050000288	Strontium 89/90
25049	11	25403	28884	SAMPLE		W050000409	Strontium 89/90
25049	12	25403	28884	SAMPLE		W050000410	Strontium 89/90
25179	1	25539	28954	BLANK			Americium by AEA
25179	2	25539	28954	LCS			Americium by AEA
25179	3	25539	28954	DUP		W050000288	Americium by AEA
25179	11	25539	28954	SAMPLE		W050000409	Americium by AEA
25179	12	25539	28954	SAMPLE		W050000410	Americium by AEA
25180	1	25540	28955	BLANK			Plutonium Isotopics by AEA
25180	2	25540	28955	LCS			Plutonium Isotopics by AEA
25180	3	25540	28955	DUP		W050000288	Plutonium Isotopics by AEA
25180	11	25540	28955	SAMPLE		W050000409	Plutonium Isotopics by AEA
25180	12	25540	28955	SAMPLE		W050000410	Plutonium Isotopics by AEA

25178	1	25538	28956	BLANK		Uranium Isotopics by AEA
25178	2	25538	28956	LCS		Uranium Isotopics by AEA
25178	3	25538	28956	DUP	W050000288	Uranium Isotopics by AEA
25178	11	25538	28956	SAMPLE	W050000409	Uranium Isotopics by AEA
25178	12	25538	28956	SAMPLE	W050000410	Uranium Isotopics by AEA
	29004			BLANK		WTPH-D TPH Diesel Range (Wa)
	29004			LCS		WTPH-D TPH Diesel Range (Wa)
	29004			SAMPLE	W050000409	WTPH-D TPH Diesel Range (Wa)
	29004			SURR	W050000409	WTPH-D TPH Diesel Range (Wa)
	29004			SAMPLE	W050000410	WTPH-D TPH Diesel Range (Wa)
	29004			SURR	W050000410	WTPH-D TPH Diesel Range (Wa)
	29004			MS	W050000556	WTPH-D TPH Diesel Range (Wa)
	29004			MSD	W050000556	WTPH-D TPH Diesel Range (Wa)
	29004			SPK-RPD	W050000556	WTPH-D TPH Diesel Range (Wa)
	29006			BLANK		VOA Ground Water Protection
	29006			LCS		VOA Ground Water Protection
	29006			MS	W050000298	VOA Ground Water Protection
	29006			MSD	W050000298	VOA Ground Water Protection
	29006			SPK-RPD	W050000298	VOA Ground Water Protection
	29006			SAMPLE	W050000409	VOA Ground Water Protection
	29006			SURR	W050000409	VOA Ground Water Protection
	29006			SAMPLE	W050000410	VOA Ground Water Protection
	29006			SURR	W050000410	VOA Ground Water Protection
	29019			BLANK		SW-846 8270B Semi-Vols
	29019			LCS		SW-846 8270B Semi-Vols
	29019			SAMPLE	W050000409	SW-846 8270B Semi-Vols
	29019			SURR	W050000409	SW-846 8270B Semi-Vols
	29019			SAMPLE	W050000410	SW-846 8270B Semi-Vols
	29019			SURR	W050000410	SW-846 8270B Semi-Vols
	29019			MS	W050000556	SW-846 8270B Semi-Vols
	29019			MSD	W050000556	SW-846 8270B Semi-Vols
	29019			SPK-RPD	W050000556	SW-846 8270B Semi-Vols
	29023			BLANK		PCBs complete list
	29023			LCS		PCBs complete list
	29023			SAMPLE	W050000409	PCBs complete list
	29023			SURR	W050000409	PCBs complete list
	29023			SAMPLE	W050000410	PCBs complete list
	29023			SURR	W050000410	PCBs complete list
	29023			MS	W050000556	PCBs complete list
	29023			MSD	W050000556	PCBs complete list
	29023			SPK-RPD	W050000556	PCBs complete list
25286	1	25656	29026	BLANK		NWTPH-GX TPH Gasoline Range
25286	2	25656	29026	LCS		NWTPH-GX TPH Gasoline Range
25286	4	25656	29026	DUP	W050000340	NWTPH-GX TPH Gasoline Range
25286	5	25656	29026	MS	W050000340	NWTPH-GX TPH Gasoline Range
25286	6	25656	29026	MSD	W050000340	NWTPH-GX TPH Gasoline Range
25286	6	25656	29026	SPK-RPD	W050000340	NWTPH-GX TPH Gasoline Range
25286	7	25656	29026	SAMPLE	W050000409	NWTPH-GX TPH Gasoline Range
25286	8	25656	29026	SAMPLE	W050000410	NWTPH-GX TPH Gasoline Range

M8141-SLF-05-117

ATTACHMENT 3

SAMPLE RECEIPT INFORMATION

Consisting of 4 pages
Including cover page

*File
VTS
3/9/05*

Waste Sampling and Characterization Facility
 P.O. BOX 1970 S3-30, Richland, WA 99352
 PHONE: (509) 373-7004/FAX: (509) 373-7134

ACKNOWLEDGMENT OF SAMPLES RECEIVED

Groundwater Remediation Program

Richland, WA 99354
 Attn: Steve Trent

Customer Code: GPP
 PO#: 119144/ES10
 Group#: 20050300
 Project#: F04-015
 Proj Mgr: Steve Trent A0-21
 Phone: 373-5869

The following samples were received from you on 02/07/05. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using Waste Sampling and Characterization Facility.

Sample#	Sample Id	Matrix	Sample Date
Tests Scheduled			
W050000409	B19PN1	GRP TRENT Solid, or handle as if solid @2008 @AEA-30 @AEA-31 @AEA-32 @GEA-GPP @IC-30 @PCBGPP @SR89_90 @SVOCGPP @TPHD-WA @TPHG @VOA-GPP CN-02 PERSOLID PH-30	02/07/05
W050000410	B19PN2	GRP TRENT Solid, or handle as if solid @2008 @AEA-30 @AEA-31 @AEA-32 @GEA-GPP @IC-30 @PCBGPP @SR89_90 @SVOCGPP @TPHD-WA @TPHG @VOA-GPP CN-02 PERSOLID PH-30	02/07/05

Test Acronym Description

Test Acronym	Description
@2008	ICP-2008 MS All possible metal
@AEA-30	Plutonium Isotopics by AEA
@AEA-31	Americium by AEA
@AEA-32	Uranium Isotopics by AEA
@GEA-GPP	Gamma Energy Analysis-grd H2O
@IC-30	Anions by Ion Chromatography
@PCBGPP	PCBs complete list
@SR89_90	Strontium 89/90
@SVOCGPP	SW-846 8270B Semi-Vols
@TPHD-WA	WTPH-D TPH Diesel Range (Wa)
@TPHG-WA	NWTPH-GX TPH Gasoline Range
@VOA-GPP	VOA Ground Water Protection
CN-02	Cyanide by Midi/Spectrophotom
PERSOLID	Percent Solids
PH-30	pH Soil and Waste Measurement

FLUOR Hanford Inc.		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST						P04-015-065	PAGE 1	OF 1	
COLLECTOR Pope/Pfister/Wiberg/Tyra		COMPANY CONTACT CS Gearlock TELEPHONE NO. 372-9638			PROJECT COORDINATOR TRENT, SJ		PRICE CODE	SN	DATA TURNAROUND		
SAMPLING LOCATION 216-T-33; 110.SR-113R		PROJECT DESIGNATION 200-MW-1 Characterization Sampling and Analysis - Soil			SAF NO. P04-015		AIR QUALITY		45 Days / 45 Days		
ICE CHEST NO.		FIELD LOGBOOK NO. HNF-N-386 1		CDA 119144ES10	METHOD OF SHIPMENT Government Vehicle						
SHIPPED TO Waste Sampling & Characterization		OPPOSITE PROPERTY NO. N/A				BILL OF LADING/AIR BILL NO. N/A					
MATRIX* A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	POSSIBLE SAMPLE HAZARDS/ REMARKS N/A	PRESERVATION	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	None			
		TYPE OF CONTAINER	aG	aG	aG	aG*	aG	Square Bottle - Poly			
		NO. OF CONTAINER(S)	1	1	1	3	1	1			
		VOLUME	250mL	120mL	250mL	40mL	120mL	500mL			
SPECIAL HANDLING AND/OR STORAGE Radioactive Tie To: B19PP2 20050300		SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	PCB - 8002;	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	SEE ITEM (3) IN SPECIAL INSTRUCTIONS	SEE ITEM (4) IN SPECIAL INSTRUCTIONS	SEE ITEM (5) IN SPECIAL INSTRUCTIONS			
SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME								
B19PN1 WOS0000Y01	SOIL	2-7-05	0720	X	X	X	X	X			
CHAIN OF POSSESSION		SIGN/ PRINT NAMES			SPECIAL INSTRUCTIONS						
RELINQUISHED BY/REMOVED FROM P. Pfister/2/7/05	DATE/TIME 1366	RECEIVED BY/STORED IN K. Gearlock/2/7/05 1355	DATE/TIME 2/7/05 1355						** The laboratory is to report both kerosene and diesel range compounds from the WTPH-D analysis. (1)IC Anions - 300.0 {Fluoride, Nitrogen in Nitrate, Nitrogen in Nitrite, Phosphate, Sulfate} Total Cyanide - 9010; pH (Soil) - 9045; (2)CP/MS - 200.8 (TAL) {Cadmium, Chromium, Copper, Silver} ICP/MS - 200.8 (Add-on) {Lead, Uranium} 200.8_HG - ICPMS (Mercury) (3)VOC - 8260A (TCL); VOC - 8260A (Add-On) {1-Butanol, cis-1,2-Dichloroethylene, n-Butylbenzene, trans-1,2-Dichloroethylene} (4)Semi-VOC - 8270A (Add-On) {Tributyl phosphate} TPH-Gasoline Range - WTPH-G; TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range, Total petroleum hydrocarbons - kerosene range} (5)Gamma Spectroscopy {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Isotopic Plutonium; Isotopic Uranium; Americium-241; Strontium-89,90 -- Total Sr;		
LABORATORY SECTION	RECEIVED BY				TITLE	DATE/TIME					
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD				DISPOSED BY	DATE/TIME					

PLUOR Hanford Inc.		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST						F04-015-086	PAGE 1 OF 1	
COLLECTOR Pope/Pfister/Wiberg/Tyra		COMPANY CONTACT CS Cearlock TELEPHONE NO. 372-9638			PROJECT COORDINATOR TRENT, SJ		PRICE CODE BN	DATA TURNAROUND		
SAMPLING LOCATION 216-T-33; 130-SR-133R		PROJECT DESIGNATION 200-MW-1 Characterization Sampling and Analysis - Soil			SAF NO. F04-015		AIR QUALITY <input type="checkbox"/>	45 Days / 45 Days		
ICE CHEST NO.		FIELD LOGBOOK NO. HNF-N-386 1		COA 119144ES10	METHOD OF SHIPMENT Government Vehicle					
SHIPPED TO Waste Sampling & Characterization		OPPOSITE PROPERTY NO. N/A			BILL OF LADING/AIR BILL NO. N/A					
MATRIX* A=Air D=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water W=Wipe X=Other	POSSIBLE SAMPLE HAZARDS/ REMARKS N/A	PRESERVATION	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	None		
		TYPE OF CONTAINER	8G	8G	8G	8G*	8G	Square Bottle - Poly		
		NO. OF CONTAINER(S)	1	1	1	3	1	1		
		VOLUME	250mL	120mL	250mL	40mL	120mL	500mL		
SPECIAL HANDLING AND/OR STORAGE Radioactive Tie To: B19PP3		SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	PCB - 6002;	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	SEE ITEM (3) IN SPECIAL INSTRUCTIONS	SEE ITEM (4) IN SPECIAL INSTRUCTIONS	SEE ITEM (5) IN SPECIAL INSTRUCTIONS		
SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME							
B19PN2 (W 0500009/0)	SOIL	2-7-05	1020	X	X	X	X	X		
CHAIN OF POSSESSION				SIGN / PRINT NAMES				SPECIAL INSTRUCTIONS		
RELINQUISHED BY/REMOVED FROM <u>R. PASTER</u> / <u>Randy P.</u> 2/7/05	DATE/TIME 1355	RECEIVED BY/STORED IN <u>WES</u> / <u>Wesley S.</u> 2/7/05	DATE/TIME 1355					** The laboratory is to report both kerosene and diesel range compounds from the WTPH-D analysis. (1)IC Anions - 300.0 (Fluoride, Nitrogen in Nitrate, Nitrogen in Nitrite, Phosphate, Sulfate) Total Cyanide - 9010; pH (Soil) - 9045; (2)ICP/MS - 200.8 (TAL) (Cadmium, Chromium, Copper, Silver) ICP/MS - 200.8 (Add-on) (Lead, Uranium) 200.8_HG - ICPMS (Mercury) (3)VOA - 8260A (TCL); VOA - 8260A (Add-On) (1-Butanol, cis-1,2-Dichloroethylene, n-Butylbenzene, trans-1,2-Dichloroethylene) (4)Semi-VOA - 8270A (Add-On) (Tributyl phosphate) TPH-Gasoline Range - WTPH-G; TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range, Total petroleum hydrocarbons - kerosene range} (5)Gamma Spectroscopy {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Isotopic Plutonium; Isotopic Uranium; Americium-241; Strontium-89,90 - Total Sr;		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME							
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME							
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME							
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME							
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME							
LABORATORY SECTION	RECEIVED BY	TITLE						DATE/TIME		
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY						DATE/TIME		